

# Muhamad Rizal Arfiyan

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🐙 <https://github.com/rizalarfiyan>

A highly skilled Web Developer with over 6 years of experience specializing in backend and full-stack development. Proficient in multiple programming languages, including Golang, JavaScript, TypeScript, and PHP. Extensive experience in backend development, particularly with Golang (4+ years). Passionate about building scalable, high-performance applications and optimizing system architecture. Currently pursuing a Bachelor's degree in Computer Science at Universitas Amikom Yogyakarta (8th semester).

## EDUCATION

### University of AMIKOM Yogyakarta

8 Jan 2022 - Present

Bachelor's degree in Informatics

Yogyakarta, Indonesia

## SKILLS

### Soft Skill

Interpersonal Skills, Positive Attitude, Creativity, Time Management, Learned Primarily from Personal and Professional Experience

### Hard Skill

**Language**      Typescript, PHP, Javascript, Golang, C#, C++, Go

**Framework**    Laravel, React, Laravel Inertia, Fiber, Codeigniter, Gin, Next.js, .Net, Angular, Express, Laravel Livewire, Mux

**Library**        Tailwindcss, Zustand, Alpine.js, Bootstrap, Dropzone, SASS, Tiptap, Chart.js, Formik, JQuery, PGX, React Query, React Table, Yup, Excelize, Zod, JSPdf, Quill, React Hook Form, Recharts, SQLX, WKHTMLTOPDF, AOS.js, Apache E-Chart, Chakra UI, ChromeDP, Editor.js, Filepond, HLS.js, Imask.js, IMask.js, JQuery, Knex, Lame.js, Laravel Echo, Mapbox, Material UI, Paparse, PdfCPU, Puppeteer, Pusher, React, Redux, RTK Query, Slate, Streamdown

**Database**      MySQL, Redis, Postgresql, Minio, Index DB, MariaDB, Memory Cache, Mysql, Postgres

**Tools**          Git, Eslint, Prettier, Vite, Github, Github, Husky, Gitlab, Lint Staged, Swagger, Webpack, Biome, Gulp, PHP CS Fixer, Cypress, Figma, Storybook

**Protocol**        REST API, HLS, MQTT, Websocket

**Devops**         Docker, Nginx, Firebase, Azure, VPS

**Methodology**   Kanban, Scrum

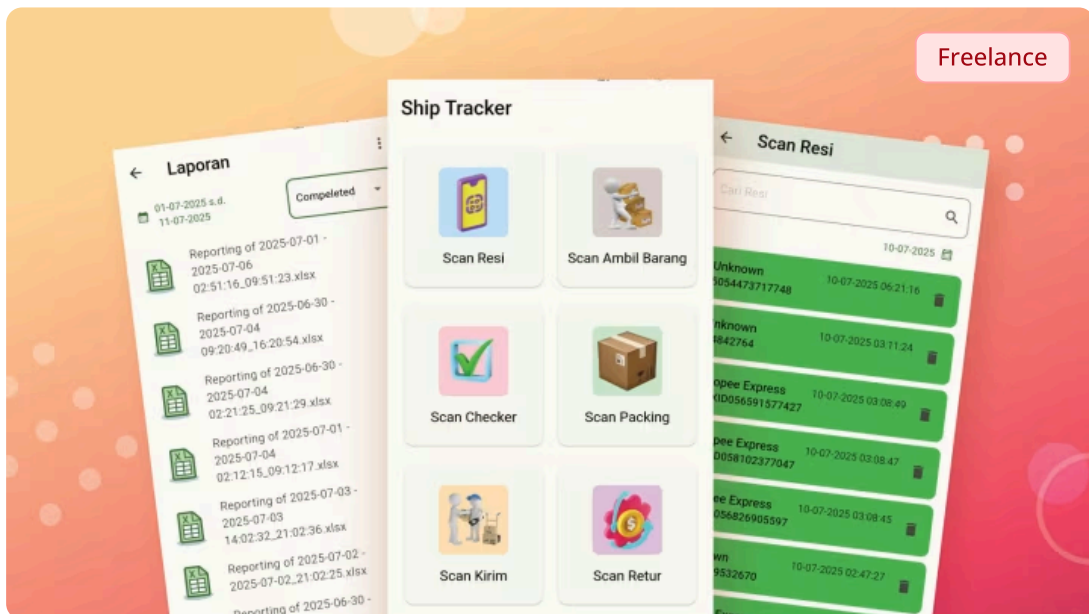
**Architecture**   Monolith, Micro Service, PWA

# CERTIFICATES

Title	By	Issued	Expired
<a href="#">Kursus Git</a>	Progate	Sep 2020	-
<a href="#">Kursus Command Line</a>	Progate	Sep 2020	-
<a href="#">Kursus PHP</a>	Progate	Sep 2020	-
<a href="#">Kursus Python</a>	Progate	Sep 2020	-
<a href="#">Kursus Javascript</a>	Progate	Sep 2020	-
<a href="#">Kursus HTML &amp; CSS</a>	Progate	Oct 2020	-
<a href="#">Kursus SQL</a>	Progate	Oct 2020	-
<a href="#">Cloud Practitioner Essentials (Belajar Dasar AWS Cloud)</a>	Dicoding Indonesia	Jun 2021	Jun 2024
<a href="#">Menjadi Front-End Web Developer Expert</a>	Dicoding Indonesia	Jul 2021	Jul 2024
<a href="#">Belajar Dasar Git dengan GitHub</a>	Dicoding Indonesia	Aug 2021	Aug 2024
<a href="#">Belajar Fundamental Front-End Web Development</a>	Dicoding Indonesia	Aug 2021	Aug 2024
<a href="#">Belajar Prinsip Pemrograman SOLID</a>	Dicoding Indonesia	Sep 2021	Sep 2024
<a href="#">JavaScript (Basic)</a>	HackerRank	Dec 2021	-
<a href="#">Go (Basic)</a>	HackerRank	Dec 2021	-
<a href="#">SQL (Intermediate)</a>	HackerRank	Dec 2021	-
<a href="#">SQL (Basic)</a>	HackerRank	Dec 2021	-
<a href="#">Problem Solving (Basic)</a>	HackerRank	Dec 2021	-
<a href="#">Memulai Pemrograman Dengan Dart</a>	Dicoding Indonesia	Jun 2022	Jun 2025
<a href="#">Memulai Pemrograman dengan Dart</a>	Dicoding Indonesia	Jun 2022	Jun 2025
<a href="#">Belajar Membuat Front-End Web untuk Pemula</a>	Dicoding Indonesia	Jan 2023	Jan 2026
<a href="#">Belajar Membuat Aplikasi Web dengan React</a>	Dicoding Indonesia	Jan 2023	Jan 2026
<a href="#">Belajar Fundamental Aplikasi Web dengan React</a>	Dicoding Indonesia	Jan 2023	Jan 2026
<a href="#">Belajar Dasar-Dasar DevOps</a>	Dicoding Indonesia	Mar 2023	Mar 2026
<a href="#">Belajar Jaringan Komputer untuk Pemula</a>	Dicoding Indonesia	Mar 2023	Mar 2026
<a href="#">LibreOffice Conf.Asia &amp; UbuCon Asia 2023</a>	Louca	Oct 2023	-

Title	By	Issued	Expired
<a href="#">Belajar Back-End Pemula dengan JavaScript</a>	Dicoding Indonesia	Oct 2024	Oct 2027
<a href="#">Belajar Dasar Pemrograman JavaScript</a>	Dicoding Indonesia	Oct 2024	Oct 2027
<a href="#">Memulai Pemrograman dengan Python</a>	Dicoding Indonesia	Oct 2024	Oct 2027
<a href="#">Belajar Dasar Visualisasi Data</a>	Dicoding Indonesia	Oct 2024	Oct 2027
<a href="#">Informatika (Talent Scouting Academy) ID: 2009522840-2</a>	Digital Talent Scholarship	Nov 2024	-
<a href="#">Frontend Developer (React)</a>	HackerRank	Jul 2025	-
<a href="#">Go (Intermediate)</a>	HackerRank	Jul 2025	-
<a href="#">React (Basic)</a>	HackerRank	Jul 2025	-
<a href="#">Asisten Praktikum Pemrograman Web</a>	Forum Asisten	Jul 2025	-
<a href="#">Asisten Praktikum Pemrograman Basis Data</a>	Forum Asisten	Jul 2025	-

## PROJECTS



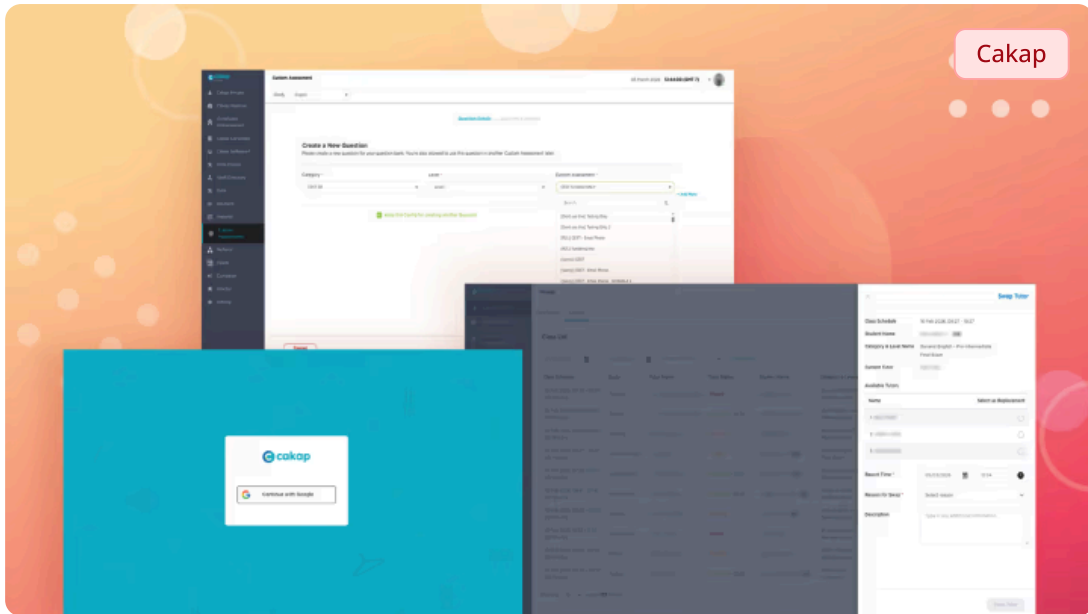
### Dian Mandiri Grup Backend

31 Oct 2024 - Present

The Dian Mandiri Logistics System is a backend platform designed to optimize warehouse receiving. It manages goods unloading by tracking items to their specific storage positions. The system includes an analytics dashboard for location and user activity, plus dynamic Excel reporting to streamline operational oversight and enhance data accuracy.

**Technology:** Golang Fiber

**Link:** Website Portal Website API



Cakap

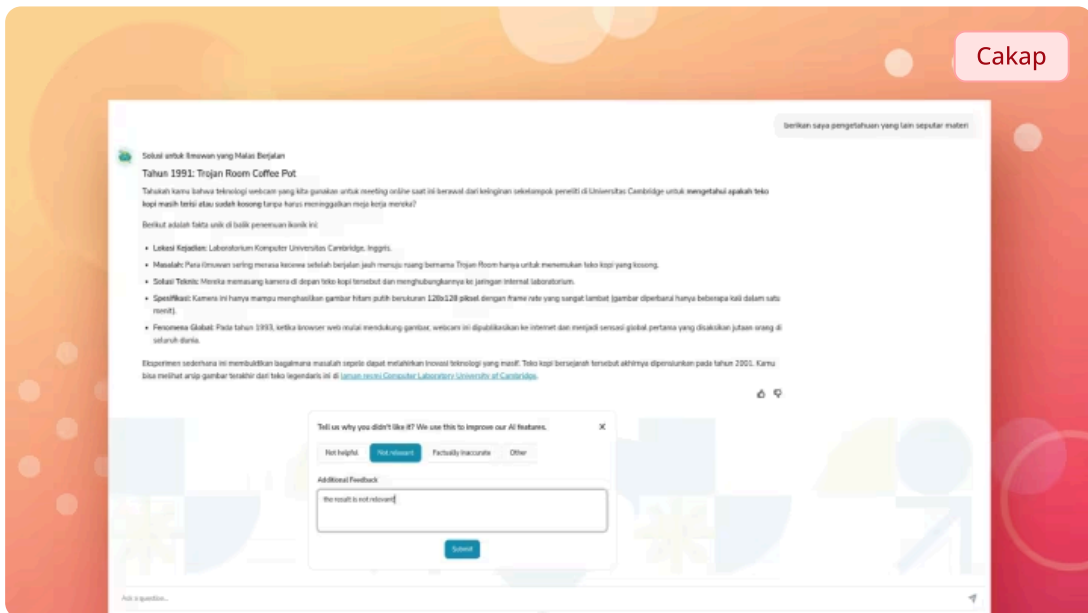
## Admin Cakap Frontend

8 Sep 2025 - 8 Apr 2026

Developed Admin Cakap, an internal dashboard using Angular. Delivered the Private Upcoming Class page with filtered tables and Swap Class functionality, built Create/Edit Phone Number features for Location Tagging, enhanced Assessment link sharing and search filters, and resolved critical bugs to improve system stability and usability.

**Technology:** Typescript Angular

**Link:** Website



Cakap

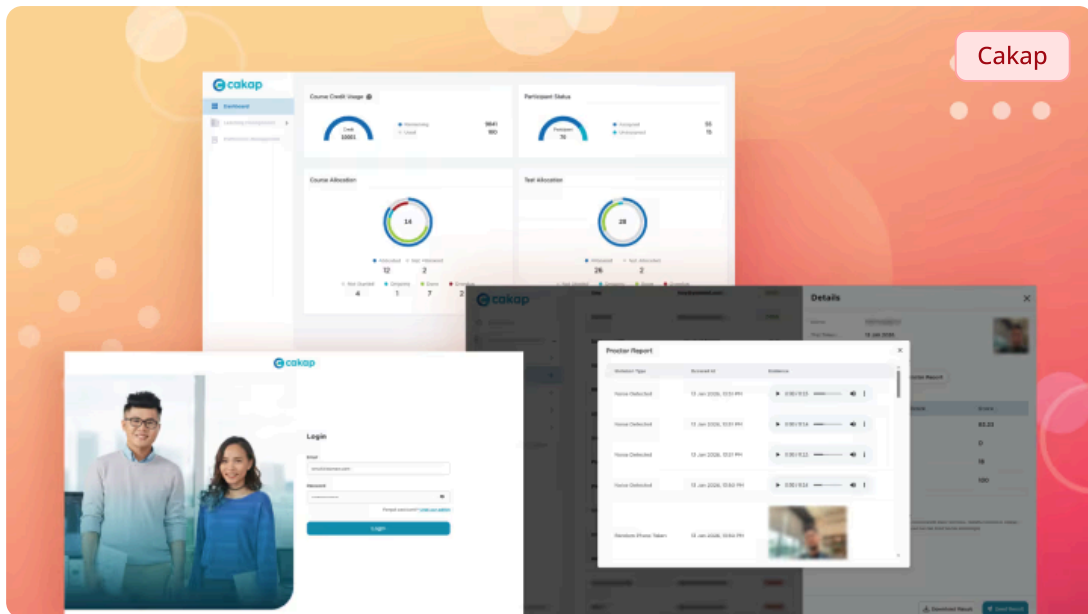
## AI Cakap Frontend

8 Sep 2025 - 8 Apr 2026

Developed AI Cakap, an AI-powered assistant for querying class materials using RAG with context scoped to learning content. I built the chat history, markdown streaming responses, feedback voting, robust error handling, and IndexedDB cache integration with existing APIs to improve reliability, performance, and user experience.

**Technology:** Typescript React

**Link:** Website



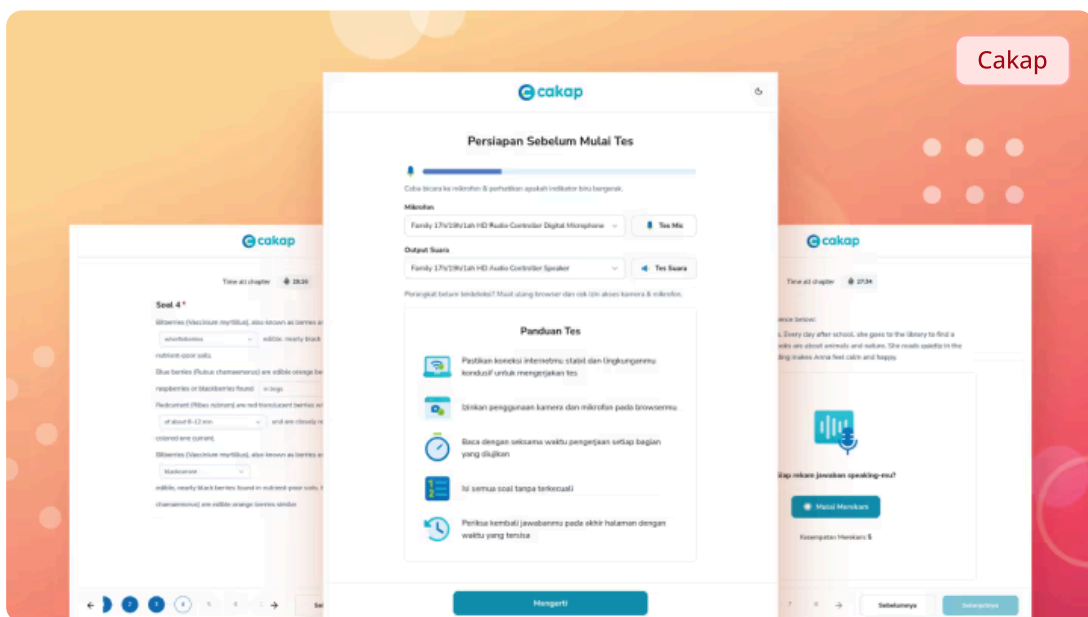
## B2B Cakap Frontend

8 Sep 2025 - 8 Apr 2026

Developed a B2B platform at Cakap using Next.js, Chakra UI, and TypeScript. Built Department Detail and Proctor Report modules, and enhanced data tables with dynamic filtering, ordering, and skeleton loading. Implemented lazy-loaded API fetching for Class Progress, improving performance and user experience.

**Technology:** Typescript React Next.js

**Link:** Website



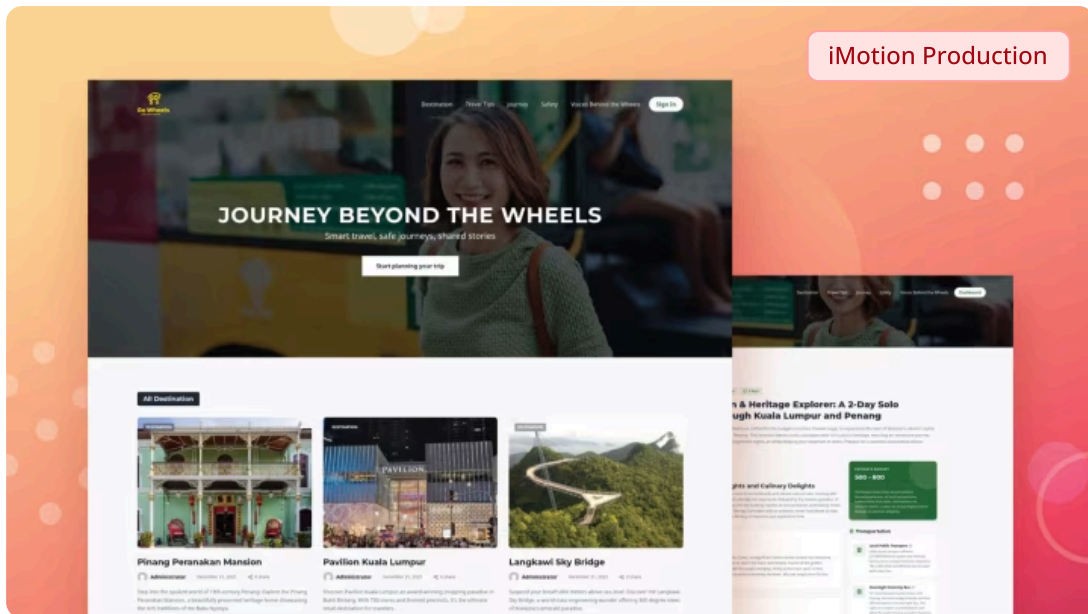
## Cakap Assessment Frontend

8 Sep 2025 - 8 Apr 2026

Cakap Assessment is a language proficiency testing platform. I develop the complete refactoring of the legacy system to improve scalability. I migrated the codebase to Vite for better performance and engineered critical features like AI-powered speaking tests and a robust device check system, ensuring a stable and maintainable environment.

**Technology:** Typescript React

**Link:** Website



## Blog Go Wheels

Fullstack

10 Jun 2025 - 12 Feb 2026

Built Blog Go Wheels, a responsive and SEO-optimized website with a full admin dashboard to manage posts, categories, media, and analytics. Developed an AI itinerary feature for Malaysia destinations, enabling itinerary creation, history tracking, and detailed trip views to enhance user engagement.

### Technology:

PHP

Typescript

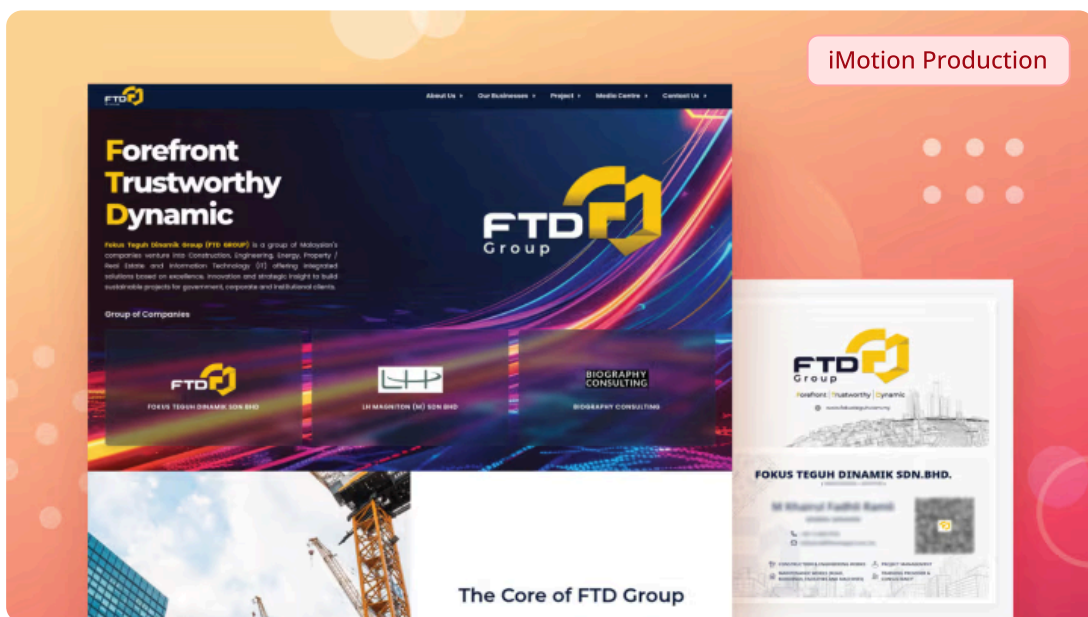
React

Laravel

Laravel Inertia

### Link:

Website



## FTD Group

Fullstack

2 Aug 2025 - 26 Oct 2025

FTD Group is a corporate platform requiring a strong digital identity. I built their high-performance website with a modern, responsive design. My key contribution was developing a custom CMS for easy content management, including a specialized digital name card tool with image export, while optimizing the site for speed and SEO.

### Technology:

PHP

Typescript

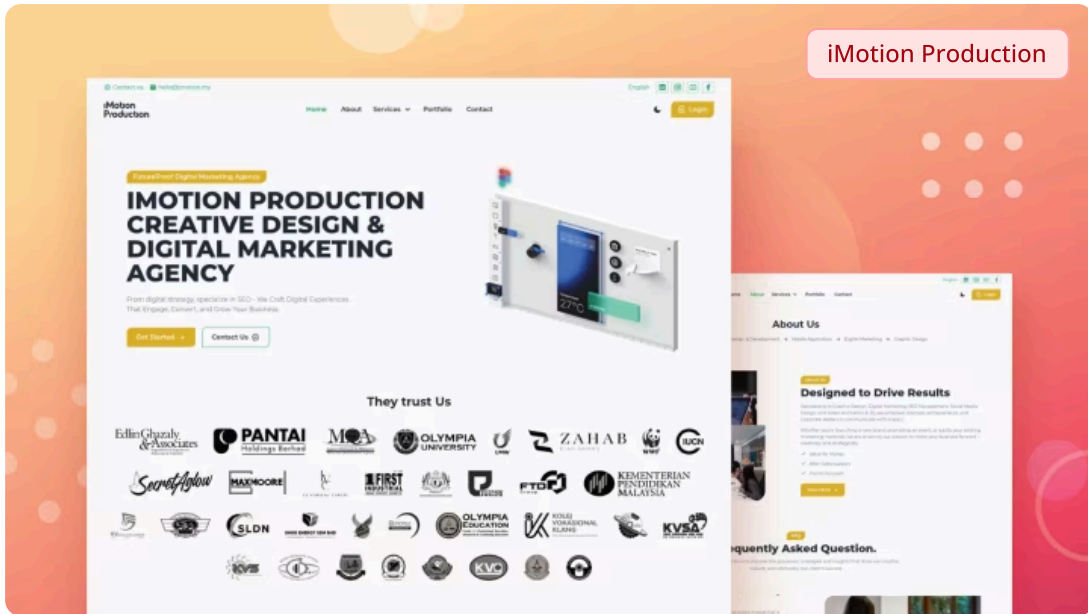
React

Laravel

Laravel Inertia

### Link:

Website



iMotion Production

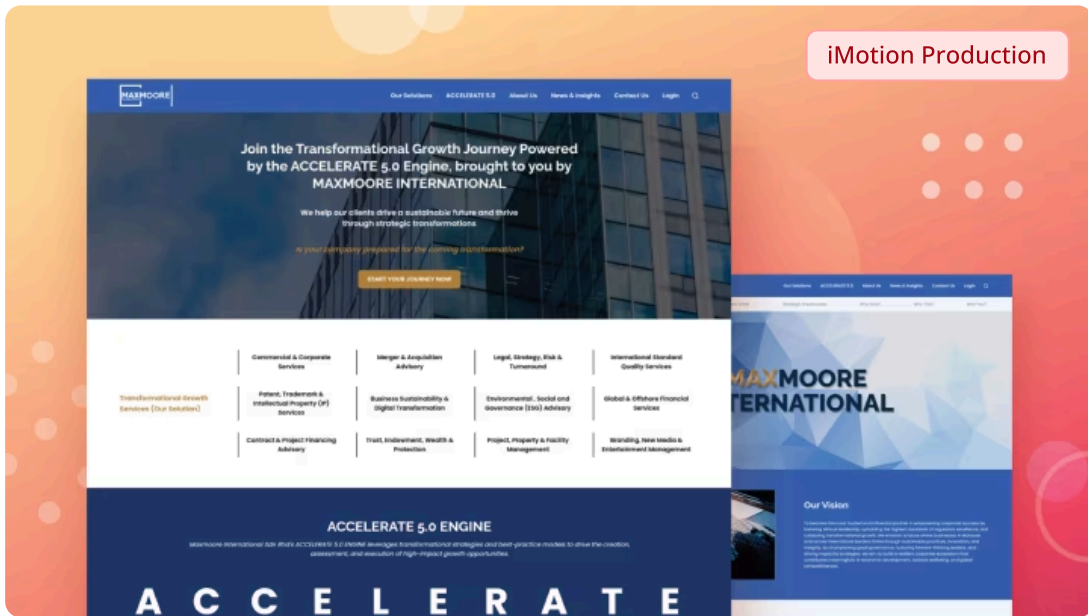
**iMotion Production** Fullstack

26 Jul 2025 - 11 Oct 2025

iMotion Production is a creative agency platform. I developed their dynamic company profile, ensuring a pixel-perfect implementation of the design. I develop a fully responsive layout with native dark mode support and optimized the entire site structure for SEO, high performance and visibility across all devices.

**Technology:** PHP Typescript Laravel

**Link:** Website



iMotion Production

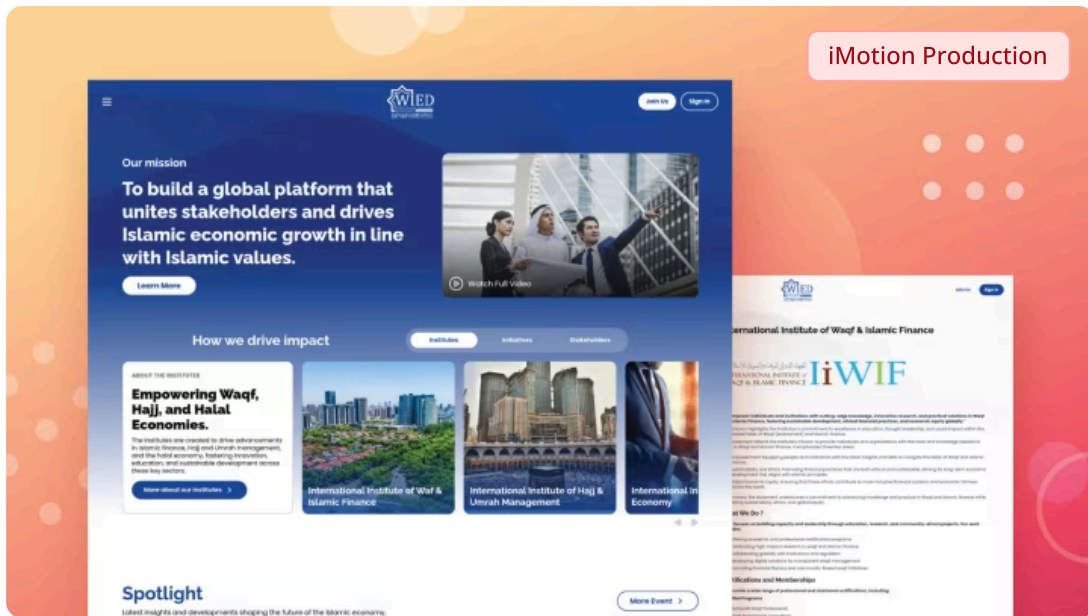
**Maxmoore International** Fullstack

26 May 2025 - 23 Jul 2025

Maxmoore International is a strategic consultancy that helps businesses execute high-impact growth opportunities. I developed their new company profile website to reflect this forward-thinking identity. The site is fully responsive and was built using a modern stack of Alpine.js and Vite to ensure a lightweight, high-performance user experience.

**Technology:** PHP Typescript Laravel

**Link:** Website



iMotion Production

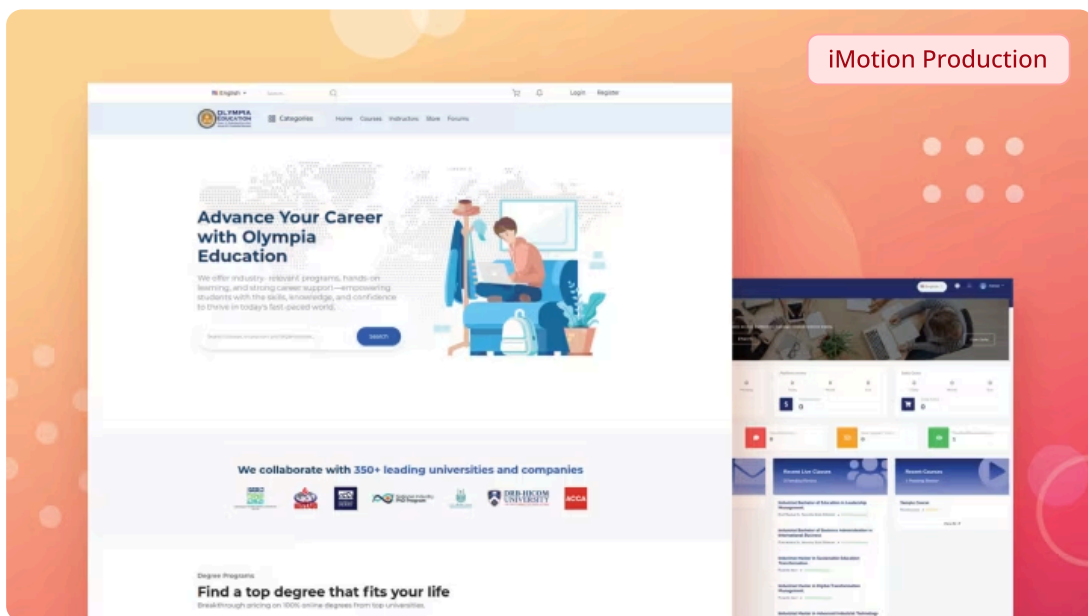
## Islamic Economy Fullstack

24 Jun 2025 - 12 Jul 2025

WIED (World Islamic Economy Development Programme) aims to build a global platform for Islamic economic growth. To create their foundational online identity, I was tasked with developing their company profile website. I implemented a clean, responsive, and mobile-first design, guaranteeing a seamless and professional user experience for all stakeholders.

**Technology:** PHP Typescript Laravel

**Link:** Website



iMotion Production

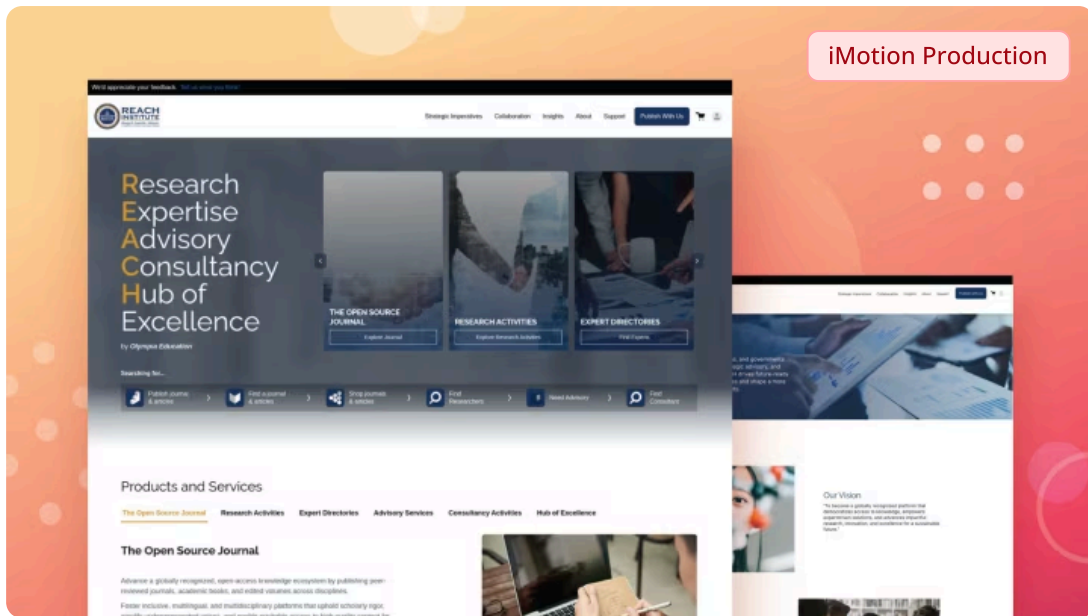
## LMS Olympia Education Fullstack

24 Jun 2025 - 12 Jul 2025

The Olympia Education LMS is a platform designed to empower students with industry-relevant skills. My contribution focused on enhancing this system by developing new features, most notably a dynamic configuration module that allows administrators to customize the layout of landing page sections, and performing various customizations on existing pages.

**Technology:** PHP Typescript Laravel

**Link:** Website



iMotion Production

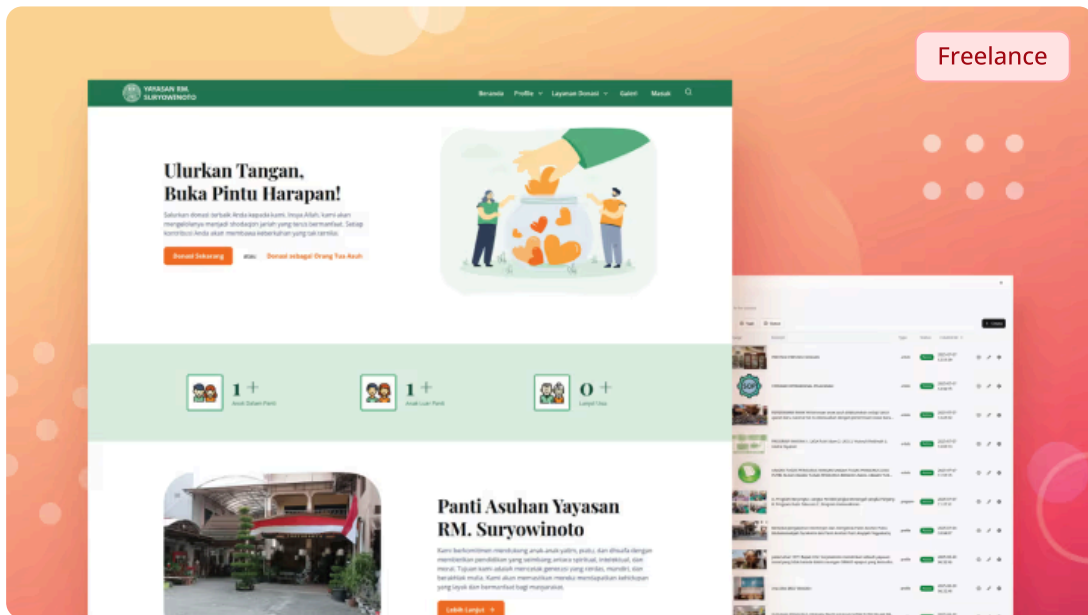
**Reach Hub** Fullstack

14 Jun 2025 - 6 Jul 2025

Reach HUB by Olympia Education is a center of excellence for Research, Expertise, Advisory, and Consultancy. My contribution covered the delivery of phase 1 is the public-facing website. This launch creates their official digital footprint and is strategically designed as a scalable foundation for a series of advanced features planned for the project's next stages.

**Technology:** PHP Typescript Laravel

**Link:** Website



Freelance

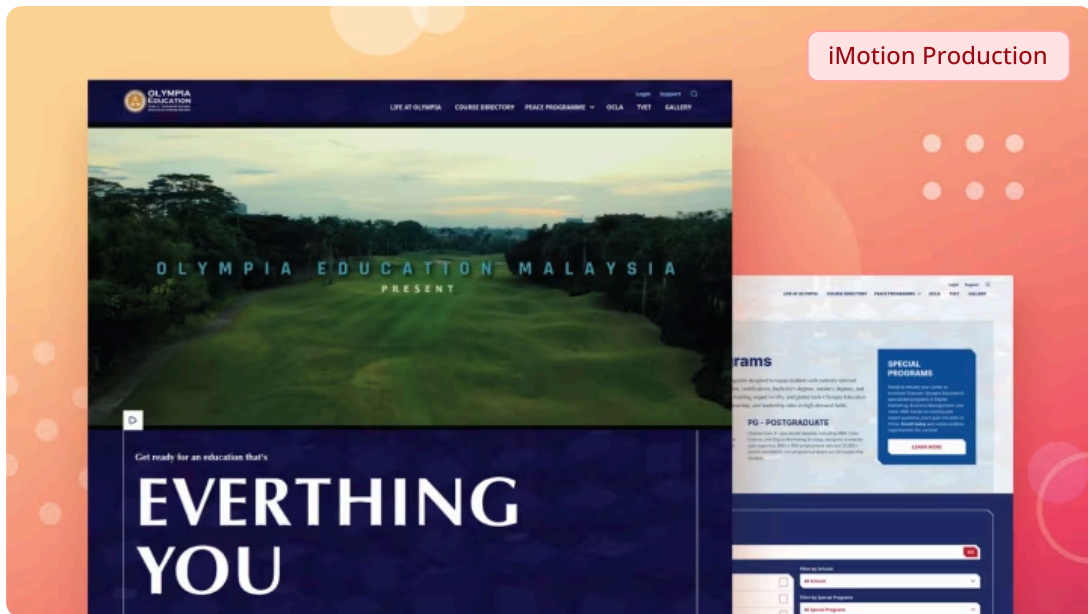
**Suryowinoto** Fullstack

1 Jun 2025 - 1 Jul 2025

The Suryowinoto Foundation website is a comprehensive platform designed to support its girls' orphanage. It integrates public content and a donation system with a secure portal for foster parent management. Key administrative functions include a robust approval workflow for foster parent applications and a verification system for all incoming donations.

**Technology:** PHP Typescript React Laravel Laravel Inertia

**Link:** Website Figma



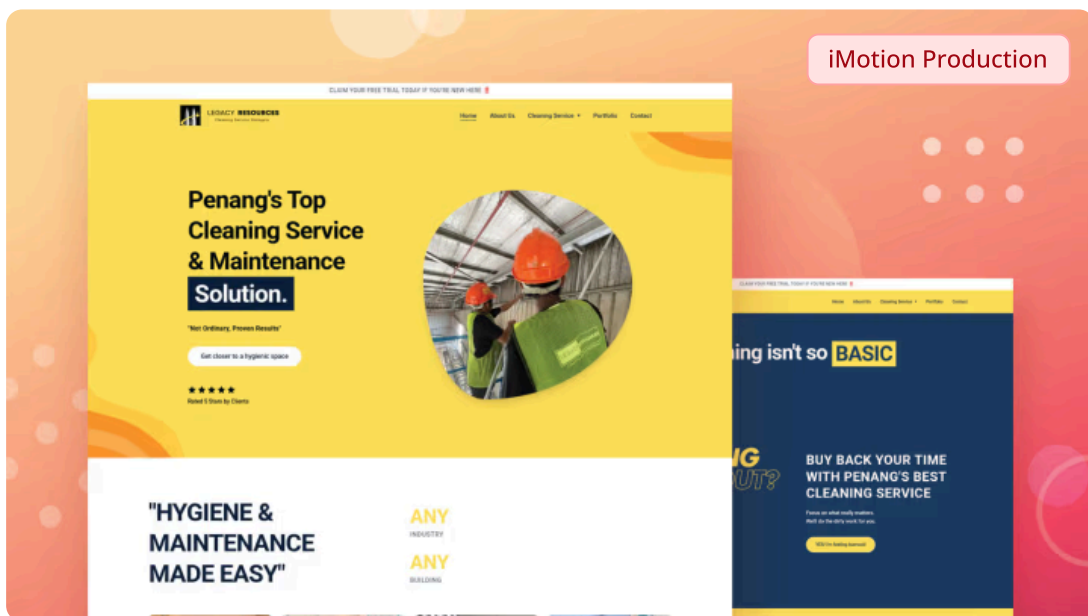
**Olympia Education** Fullstack

10 Apr 2025 - 18 Jun 2025

This project encompassed the full-stack development of the Olympia Education web platform. The scope included building its public-facing website and engineering a secure dashboard with a suite of administrative tools. Core features developed include an AI content writer and comprehensive user management to streamline all internal operations.

**Technology:** PHP Typescript React Laravel Laravel Inertia

**Link:** Website



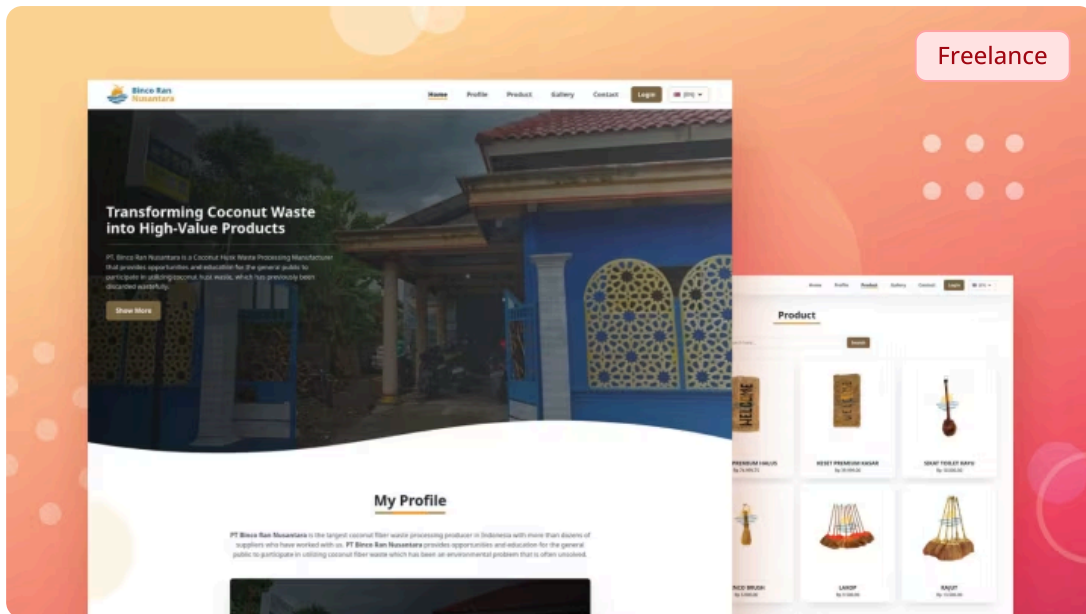
**LKM Legacy Resources** Fullstack

30 Mar 2026 - 15 Apr 2025

Developed the company profile website for LKM Legacy Resources with fully responsive design across mobile, tablet, and desktop. Optimized SEO tags and structured data for better visibility, and improved page load performance through efficient asset handling and front-end optimization to enhance user experience.

**Technology:** PHP Typescript Laravel

**Link:** Website



## Binco Ran Nusantara

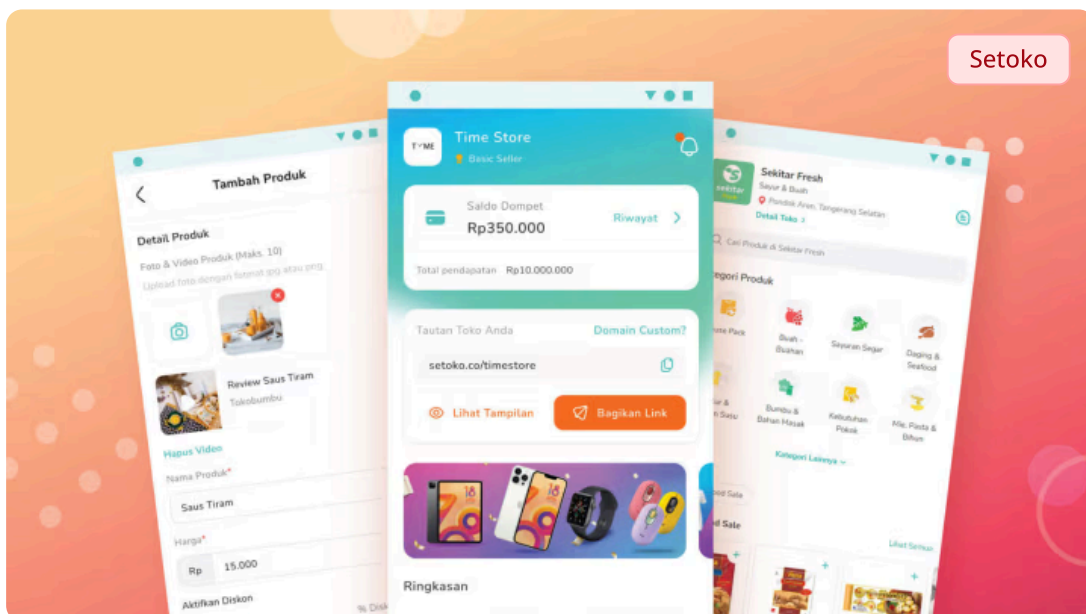
Fullstack

17 Mar 2025 - 26 Mar 2025

Binco Run Nusantara is a manufacturer specializing in processing coconut fiber waste into various products. This application streamlines transactions between suppliers and administrators, featuring master data management for users, products, materials, and transactions. It also supports invoice generation with printable formats in both PDF and image.

**Technology:** PHP, Typescript, React, Laravel, Laravel Inertia

**Link:** Website



## Setoko

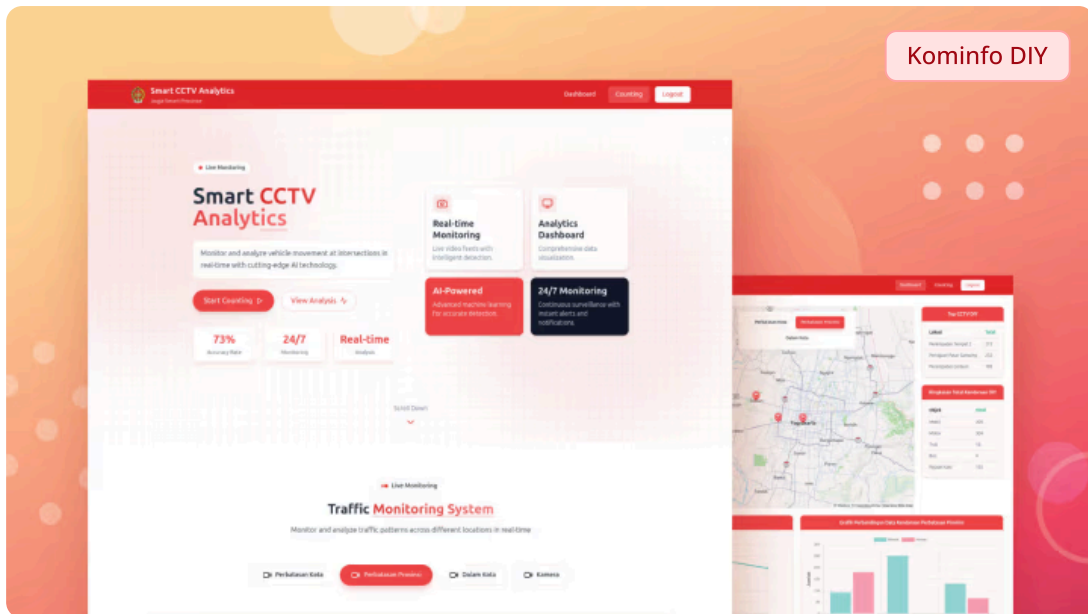
Backend

19 Jun 2023 - 26 Feb 2025

Setoko is a web and mobile e-commerce platform offering advanced reporting, analytics, product management, and cart management. To enhance performance, I am refactoring the codebase with optimized algorithms and bug fixes. Additionally, I am building a robust DevOps infrastructure to streamline deployment, improve system reliability, and boost operational efficiency.

**Technology:** Golang, Mux

**Link:** Google Play, Website Store, Website Dashboard



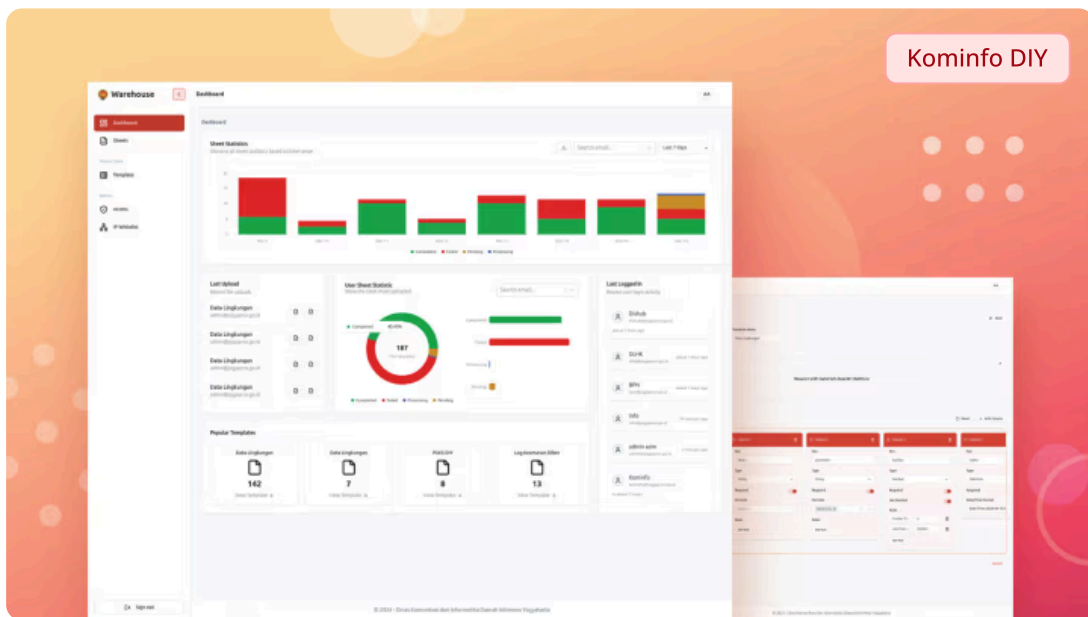
Kominfo DIY

## CCTV Analytics Backend

1 Aug 2024 - 31 Dec 2024

CCTV Analytics is a platform for detecting and counting vehicles at various intersections in Yogyakarta using scheduled CCTV footage. Powered by TensorFlow.js and the YOLOv8 deep learning algorithm, it analyzes traffic flow to estimate congestion levels at specific locations. By leveraging structured data processing, it supports better urban planning and traffic management.

**Technology:** Golang Typescript Gin React



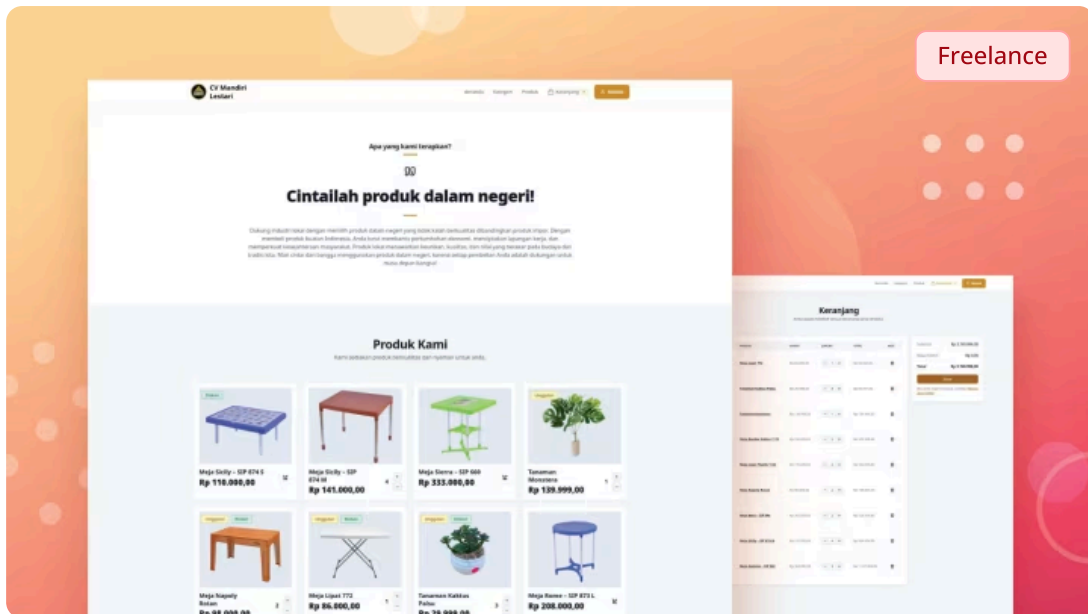
Kominfo DIY

## Warehouse Kominfo Backend

1 Aug 2024 - 31 Dec 2024

Kominfo Data Warehouse is a platform designed to simplify data management for civil servants across various sectors. It enables users to upload spreadsheet data, which is then processed and stored in a centralized database. The application supports SSO authentication and features dynamic column validation, user management, and log history tracking for uploaded data.

**Technology:** Golang Fiber



Freelance

**CV Mandiri Lestari** Fullstack

1 Aug 2024 - 20 Aug 2024

CV Mandiri Lestari is an SME specializing in domestic plastic-based products. Its platform features a clean, responsive design for an intuitive user experience. The application offers robust functionalities, including product, category, user, and staff management, as well as a streamlined shopping cart system.

**Technology:** PHP Javascript Laravel Laravel Livewire



Freelance

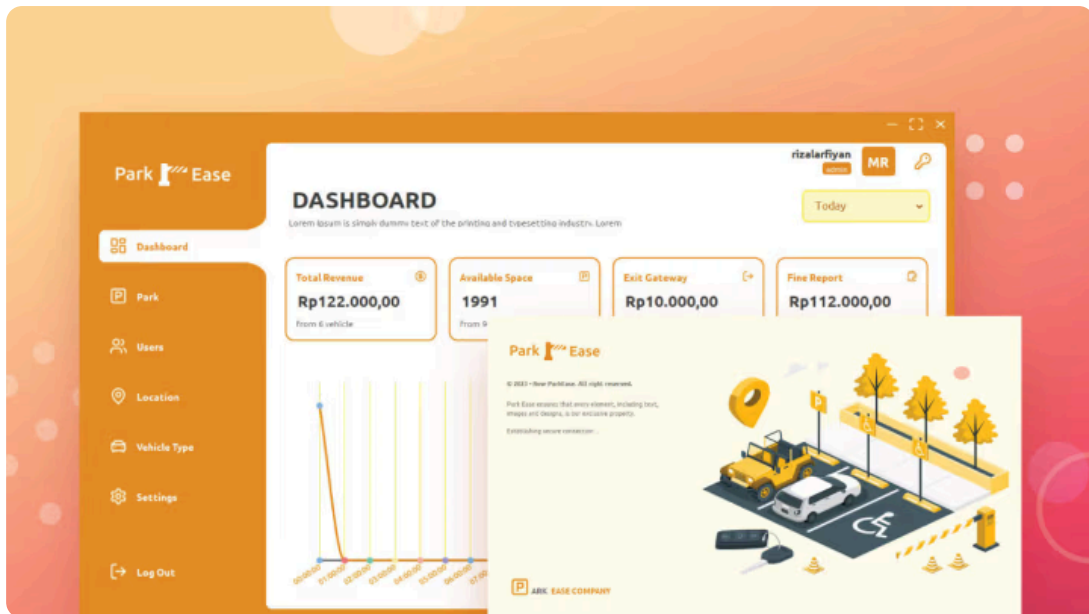
**Santrimo** Backend

28 Aug 2023 - 26 Jan 2024

Santrimo, a mobile application for enhances queue management and case tracking at the East Jakarta Religious Court. Optimized with in-memory caching, it efficiently processes queues and highly relational case data by leveraging existing system records. This improves the performance, reliability, and responsiveness of court operations, ensuring a seamless and efficient workflow.

**Technology:** Golang Fiber

**Link:** Google Play



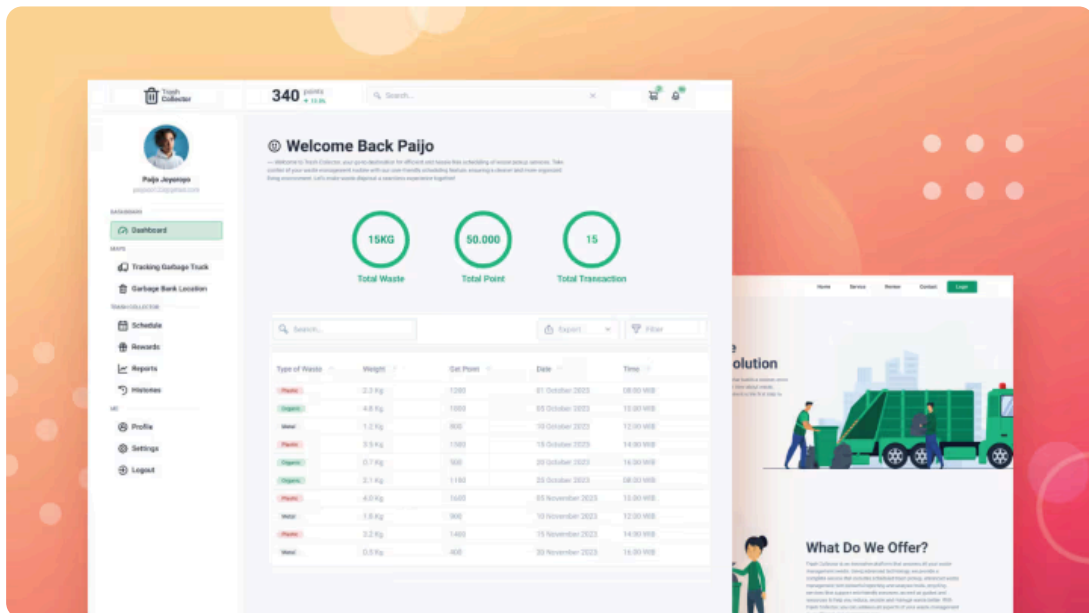
**Park Ease** Windows Form

18 Dec 2023 - 15 Jan 2024

Parkease is a Windows Forms application designed to optimize parking operations with an intuitive and flexible interface. It enables seamless point-of-sale management, editable master data, dynamic parking fee calculations, and a comprehensive statistics page. Parkease delivers a robust solution for efficiently managing all aspects of parking system operations.

**Technology:** C# Golang .Net Fiber

**Link:** Github WinForm Github BE



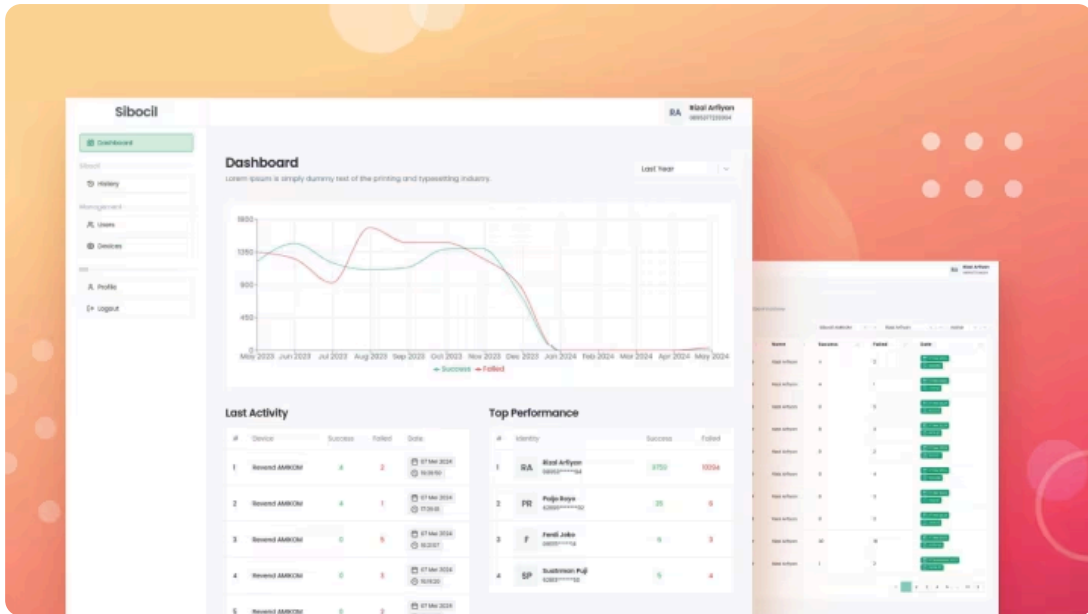
**Trash Collector** UI-UX

18 Oct 2023 - 8 Jan 2024

Trash Collector is a web-based UI/UX platform designed to optimize waste collection. Developed using Figma and Adobe Illustrator, it features a user-friendly interface with detailed analytics, history tracking, customizable settings, and a points/rewards system. By providing engaging and informative tools, Trash Collector promotes responsible waste management and sustainability.

**Technology:**

**Link:** Figma UI Figma Prototype



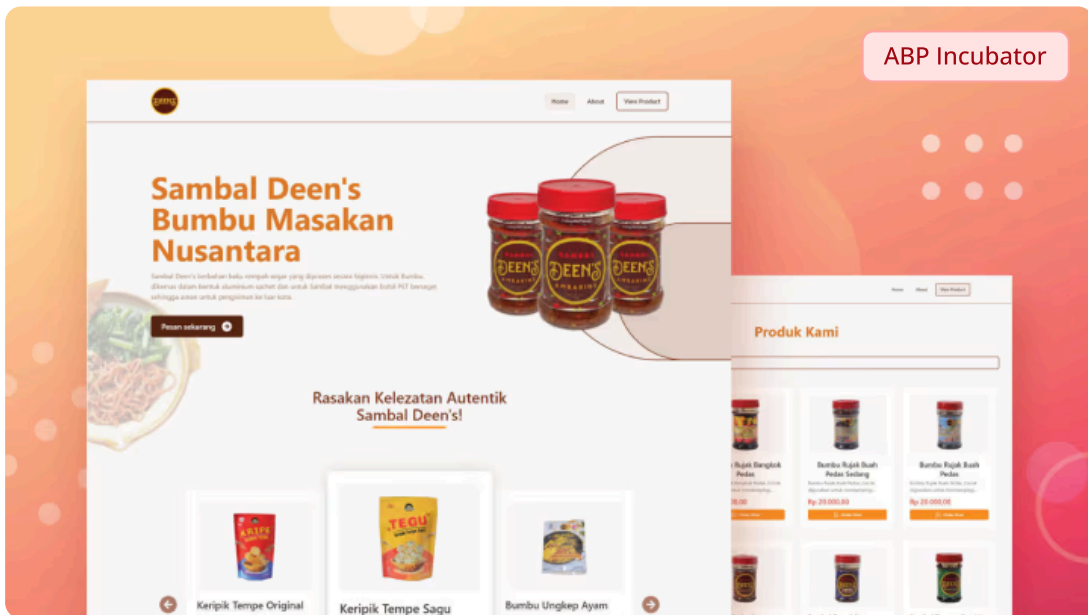
**Sibocil** Fullstack

10 Feb 2023 - 28 Dec 2023

Sibocil, an IoT device based on ESP-32, aims to enhance environmental management through innovative technology. This smart system, whose name is short for "Sistem Pengelolaan Botol Cerdas Untuk Lingkungan," leverages MQTT protocol for communication, processes data using Go, and displays information via Next.js. Sibocil's real-time data processing tracks bottle counts from registration onwards.

**Technology:** Golang C++ Typescript React Next.js Fiber

**Link:** Github BE Github FE Github IoT



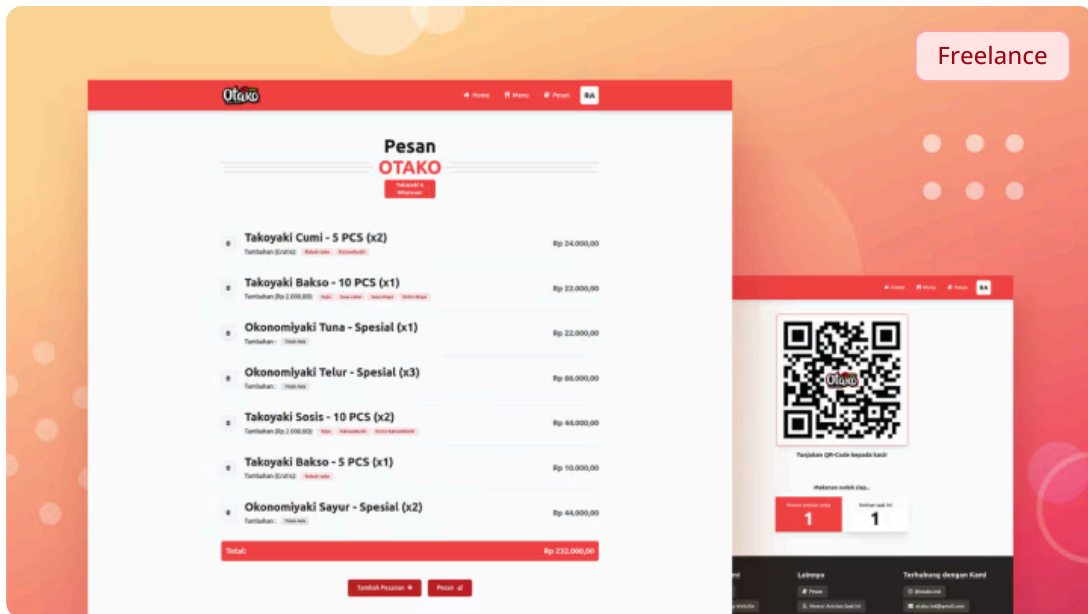
**Sambal Deens** Frontend

29 May 2023 - 28 Jul 2023

Sambal Deens is a product management platform designed for small and medium-sized enterprises (SMEs). Leveraging the power of React TypeScript and Laravel, the platform is optimized for superior search engine optimization (SEO) performance. Its intuitive, user-friendly dashboard enables seamless customization of all data, streamlining the management of product information.

**Technology:** PHP Typescript React Laravel Laravel Inertia

**Link:** Website



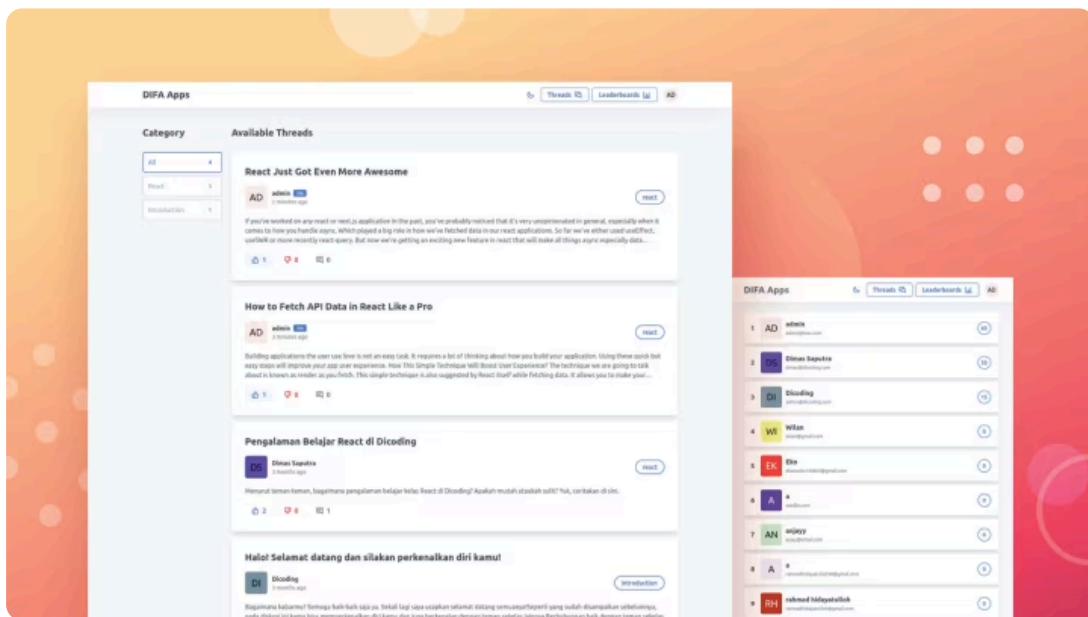
Freelance

**Otako** Fullstack

28 May 2023 - 9 Jun 2023

Otako provides food and beverage solutions to Micro, Small and Medium Enterprises (MSME) businesses. The main features are a realtime queuing system and an income calculation system. As the frontend developer for views and logic, I also contribute to the improvement of code quality and performance on the backend.

**Technology:** PHP Javascript React Laravel



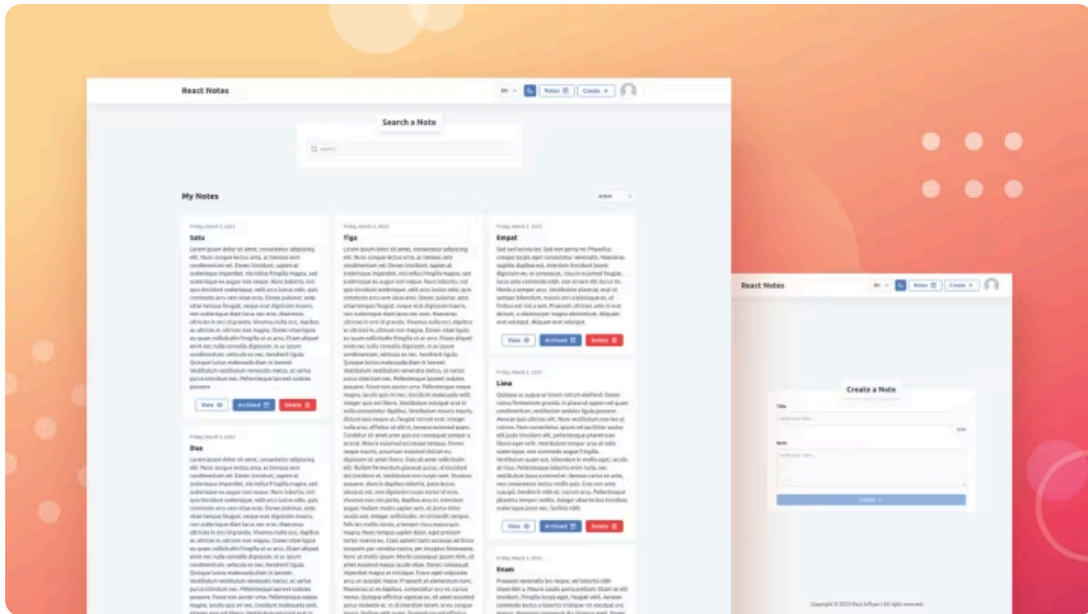
**Difa Apps** Frontend

21 Jan 2023 - 2 Feb 2023

A solutions/submissions for study case of 'Menjadi React Web Developer Expert' in Dicoding Indonesia class. The apps follow the same principles as the Vorum website. These apps have features like creating threads, commenting in the threads, upvoting and downvoting threads or comments, leaderboards, etc.

**Technology:** Typescript React

**Link:** Github



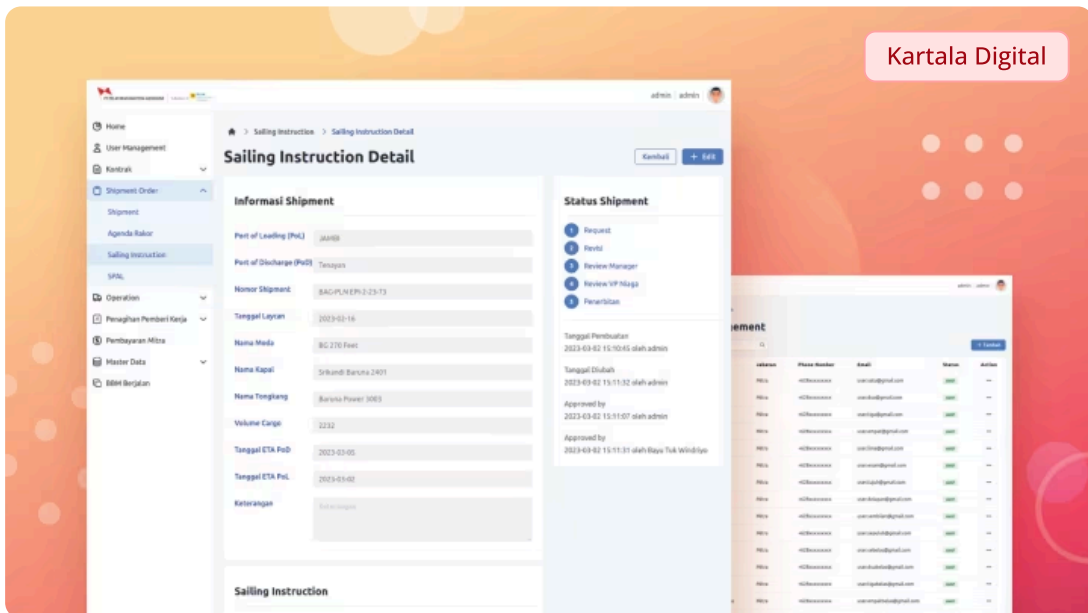
**React Notes** (Frontend)

13 Jan 2023 - 21 Jan 2023

A solutions/submissions for study case of 'Belajar Fundamental Aplikasi Web dengan React' in Dicoding Indonesia class. This app has features to log in, log out, create a note, archive a note, show list notes with search and filtering, and show the detail of a note. Build with native components (no framework use), responsive design and mobile-friendly.

**Technology:** Javascript (React)

**Link:** (Github)



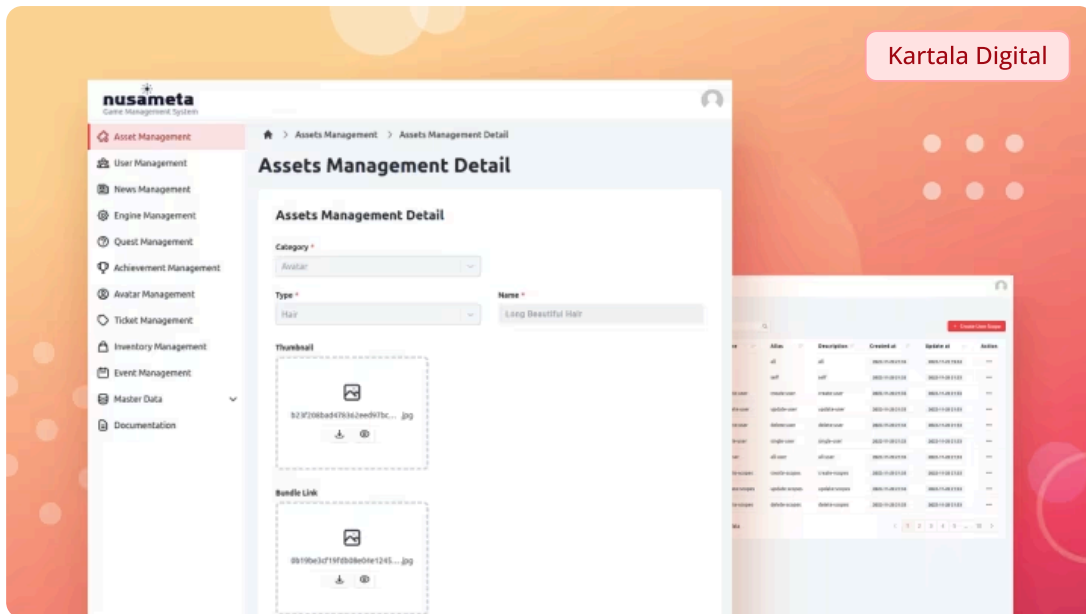
**Kartala Digital**

**House of Bags CMS** (Frontend)

15 Sep 2022 - 31 Dec 2022

House of bags is CMS for managing anything which relates to the PLN and the partners. I developed with the team, specifically for managing the task for other developers, creating new features, fixing the bug, and creating a boilerplate or the repository using clean architecture and standard code formatting such as linter, global components and etc.

**Technology:** Typescript (React)



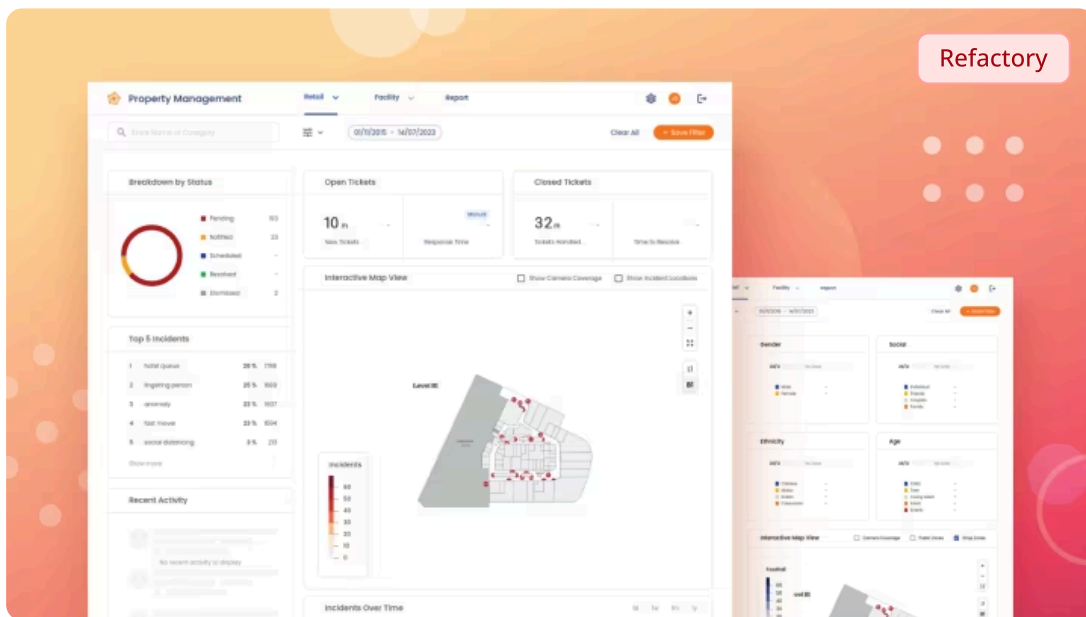
Kartala Digital

**Nusameta Game CMS** Frontend

16 Aug 2022 - 30 Sep 2022

Nusameta Game CMS is a content management system for game based on VR/AR. I created the primary front-end features, such as CRUD, global components, responsive layouts, and etc. This project is interesting because has one case for selecting the data, but the data has many connections to another module (depending on another module).

**Technology:** Typescript



Refractory

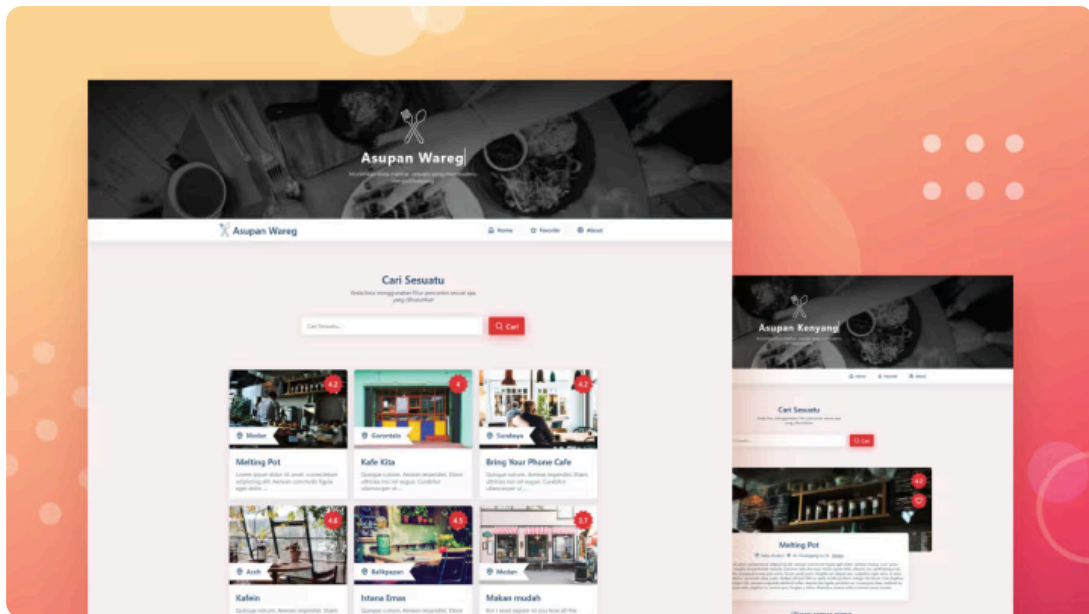
**Laurretta.io** Backend

10 May 2022 - 23 Aug 2022

Powered by Artificial Intelligence, Laurretta.io uses existing cameras to infer occupant behaviour and intent that provides insights into Property, Facility, Retail & Security Management. I develop the apps like fixing bugs and creating PDFs for a reporting system that automatically processes data with graphical input such as line charts, bar charts, pie charts, scatter charts, sankey charts, and other custom HTML elements.

**Technology:** Javascript Express

**Link:** Website



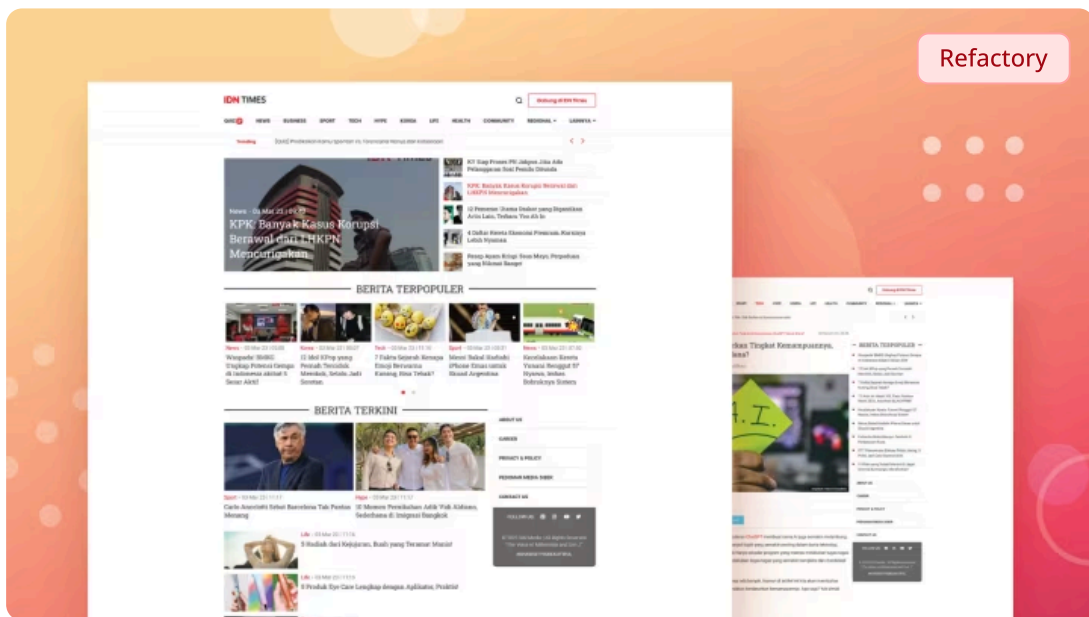
**Asupan Wareg** (Frontend)

15 May 2022 - 24 Jun 2022

A solutions/submissions for study case of 'Front-End Web Developer Expert' in Dicoding Indonesia class. Built with vanilla/native javascript, which supports PWA and has a 100% lighthouse score. Use local storage, a database index in the browser, workbox caching, and other technologies in this project.

**Technology:** Javascript

**Link:** Website Github Figma



Refactory

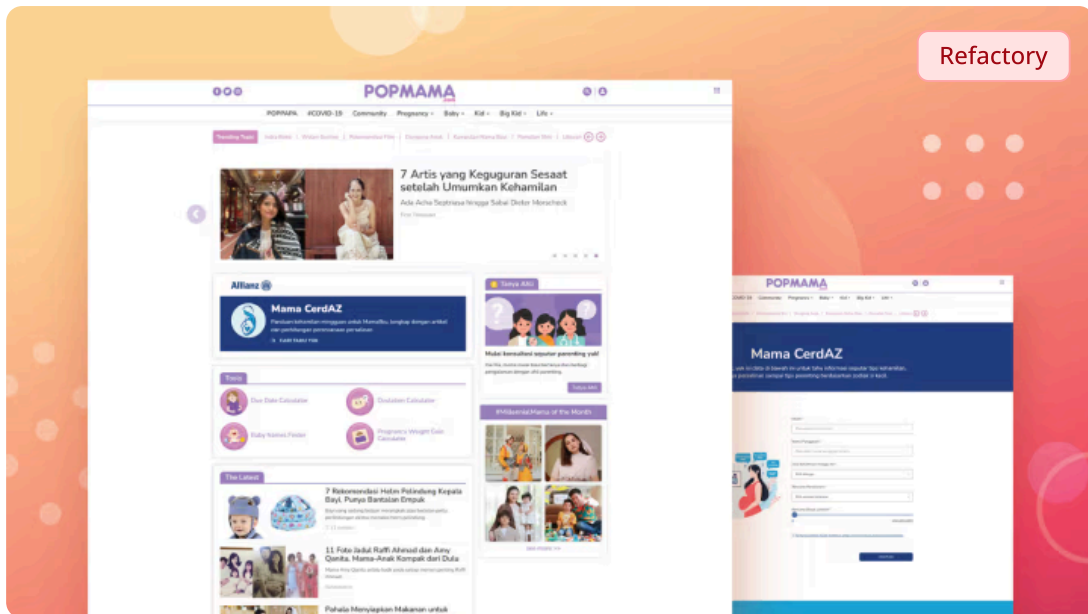
**Idntimes** (Backend)

15 Jan 2022 - 15 Jun 2022

IDN Times is a news portal in Indonesia which a lot of categories, campaigns, and events. Together with the team, I create new features, fix bugs, and update the codebase by using a linter to modify the overall coding style. The CMS is fast even though it was built with Laravel, but the apps have been optimized with Redis caching and other techniques.

**Technology:** PHP Laravel

**Link:** Website



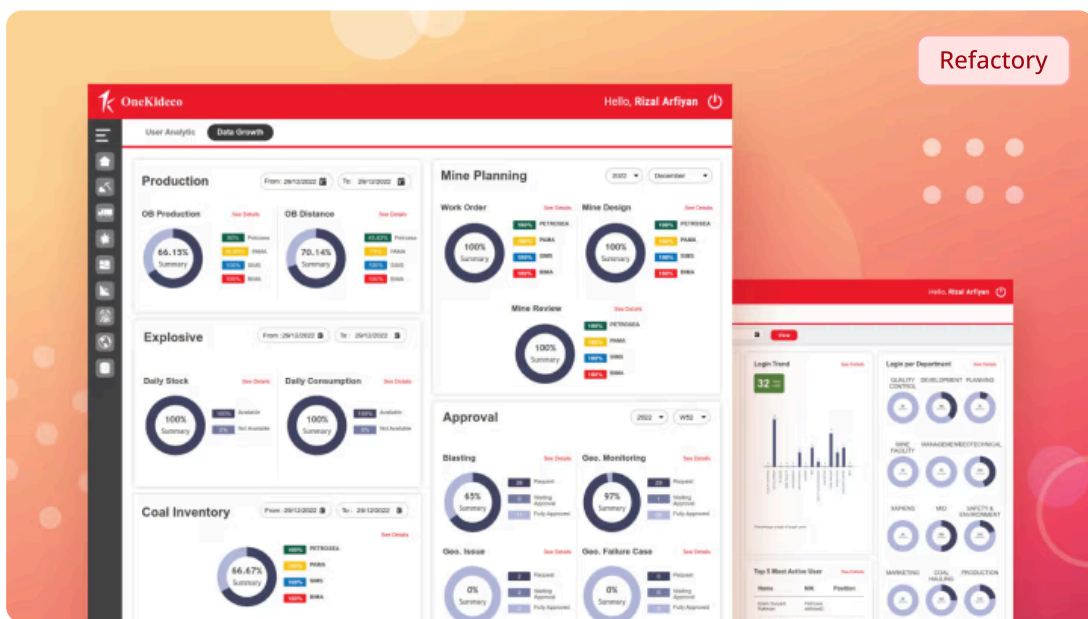
**Popmama** Backend

15 Jan 2022 - 15 Jun 2022

Popmama is a website for parenting, including mother and father for taking care of children, pregnancy tips and tricks, and other topics. On this website, I added a new feature that includes pregnancy calculations, such as date of birth prediction, horoscopes, and recommendations for first, second, and third-trimester articles.

**Technology:** PHP Laravel

**Link:** Website



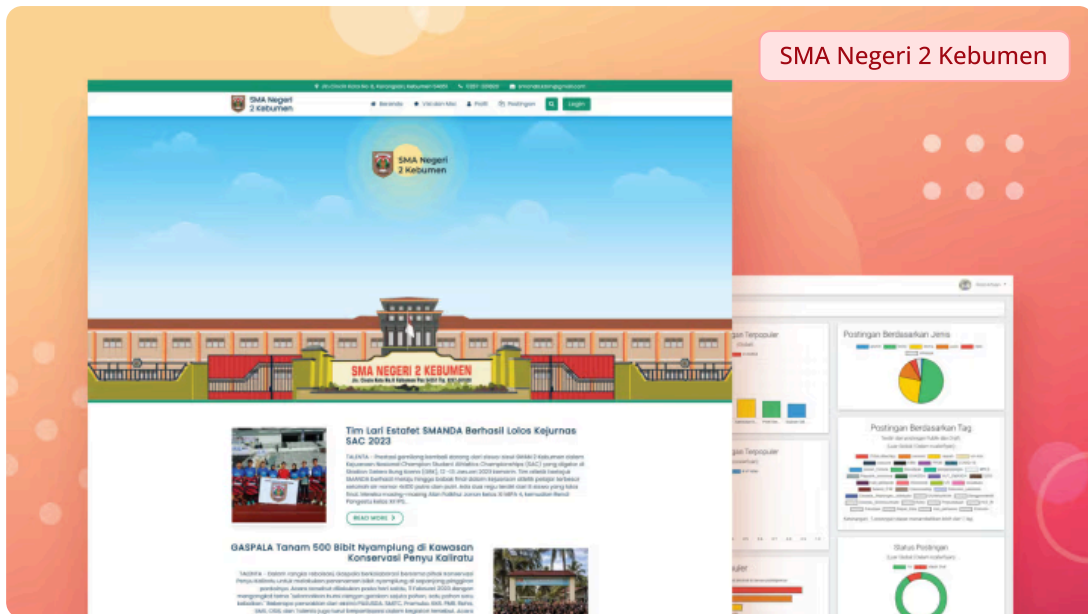
**Onekideco** Backend

16 Aug 2021 - 10 Mar 2022

Onekideco is an app for a coal mine reporting system. Developed by a great team with effective communication, extensive knowledge, etc. The apps have a lot of features, including the ability to send notifications to users, calculate data using the coal mine formula, read and write Excel files, and create reports in PDF format, etc.

**Technology:** Go Gin

**Link:** Website



SMA Negeri 2 Kebumen

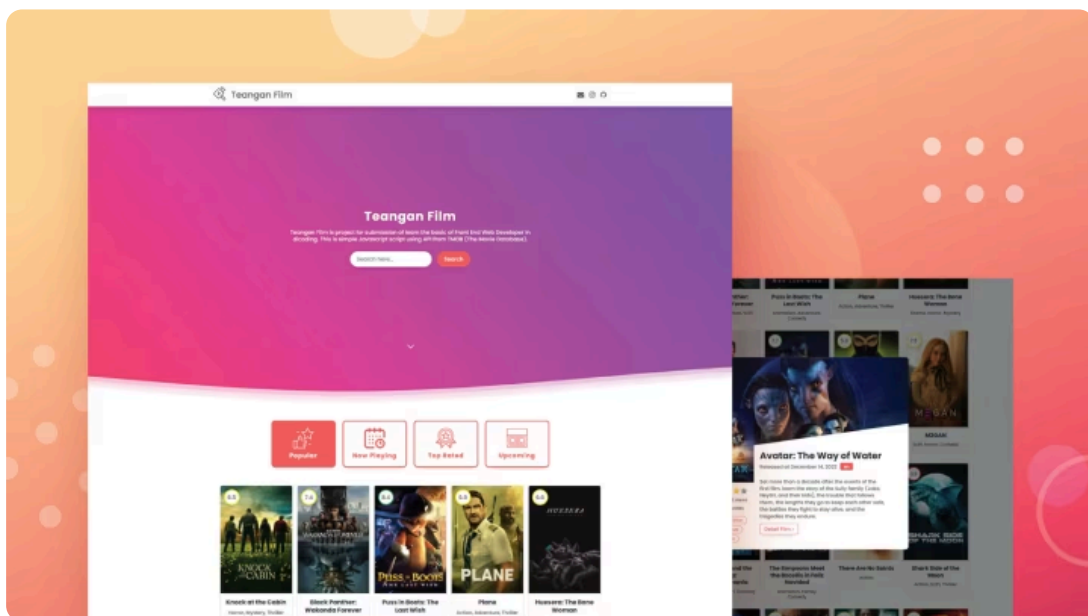
**SMA Negeri 2 Kebumen** Fullstack

10 Jul 2019 - 20 Aug 2021

Upgrade the website to dynamic pages from static pages. Create a website for Kebumen's Senior High School two on official orders from the headmaster. Create a team with me and one of my friends as two of the members. The CMS support for all content such as the main post, the organization post, the achievement post, the news post, and so on.

**Technology:** PHP Javascript Codeigniter

**Link:** Website



**Teangan Film** Frontend

26 Jul 2021 - 3 Aug 2021

A solutions/submissions for study case of 'Belajar Fundamental Front-End Web Development' in Dicoding Indonesia class. Uses a public Apis owned by The Movie Database that is instantly updated with the current time. There are features where you can search for movies and filter them by upcoming, top-rated, popular, and currently playing.

**Technology:** Javascript

**Link:** Website Github



SMA Negeri 2 Kebumen

## Evoting SMANDA Fullstack

15 Dec 2019 - 20 Mar 2020

Solution for OSIS's election chairman in pandemic covid-19. Developed by me to finish a work program for the OSIS sebid 9 position. Depending on the LUBER and JURDIL principles, the apps has a significant impact on the election. A success percentage of more than 90% for legitimate elections and roughly 10% for votes not cast.

**Technology:** PHP Javascript Codeigniter

**Link:** Website

## WORKS



### Fullstack Developer (Part-Time)

iMotion Production

Apr 2025 - Present  
Selangor, Malaysia (Remote)

- Translate UI/UX designs into web pixel-perfect, high-fidelity frontend code, ensuring faithful execution of the visual concept.
- Developed fully responsive and mobile-first layouts to deliver a consistent and engaging user experience across all devices.
- Strength backend application security by identifying vulnerabilities and implementing secure coding best practices.
- Established CI/CD pipelines to automate deployments to cPanel, significantly reducing deployment time and minimizing human error.
- Executed a complete server migration for PHP-based applications using cPanel with ensuring data integrity.
- Enforced code quality and consistency across frontend and backend repositories by implementing and configuring linters.
- Managed web hosting environments, including the configuration of DNS, file managers, and email services to ensure seamless operation.



## Fullstack Developer Intern

Cakap

Sep 2025 - Mar 2026

Yogyakarta, Indonesia

- Refactored the legacy assessment codebase to improve structure and maintainability.
- Migrated the frontend build system from Create React App to Vite for faster performance and optimized application load times using advanced code-splitting techniques.
- Standardized coding practices by implementing ESLint, Prettier, and Lefthook.
- Developed interactive assessment features, including Drag-and-Drop, Voice Recording, AI-powered Speaking Analysis, Fill-in-the-Blank, Audio Playback Controls, and etc.
- Built a pre-assessment device check to ensure microphone and camera functionality.
- Completed a full platform refactor within a targeted 3-sprint (6-week) schedule.
- Fixed bugs and improved stability for Upskill, Assessment, and B2B Partner services.
- Collaborated with the team to review code and resolve technical blockers efficiently.



## Forum Asisten

Forum Asisten

Mar 2025 - Aug 2025

Yogyakarta, Indonesia

- Assisted lecturers during practical sessions to explain concepts in Database Systems and Web Development.
- Guided students through technical challenges, helping them debug code and understand best practices.
- Graded assignments and practical exams to evaluate student performance.
- Calculated and managed student scores to assist in final grade determination.
- Act as a mentor, bridging the gap between students and lecturers.



## Backend Developer (Part-Time)

Setoko

Jul 2023 - Feb 2025  
Jakarta, Indonesia (Remote)

- Designed and implemented staging and production environments using containerization.
- Developed a dynamic event scheduler with a GUI interface for automated tasks such as SQL backups and unused file removal.
- Established CI/CD pipelines with zero downtime across multiple repositories.
- Optimized Docker images by reducing bundle size.
- Identified and resolved software bugs to improve system stability.
- Refactored legacy backend code and normalized the database to enhance performance.
- Developed major features, including QR Code generation, Notification Reminder, WMS, Single Checkout, Settings, Subscription, Customer Management, Banner Management, and Bulk Product Management.
- Implemented an advanced image upload system with auto-cropping, resizing, and support for multiple image formats.
- Created comprehensive API documentation using Swagger.
- Developed a magic link authentication system using WhatsApp API.
- Enhanced logging best practices with file rotation for efficient log management.
- Built a dynamic spreadsheet-to-Excel processing system with styled formatting.
- Optimized multi-row spreadsheet reading with concurrency, validation, and bulk insertion into the database for various use cases.
- Generated visually appealing PDFs and images using Golang (Headless Chrome).



## Web Developer

Freelance

Mar 2023 - Feb 2025  
Remote

- Conducted client discussions to identify feature requirements based on their business challenges.
- Selected appropriate technologies tailored to project needs.
- Executed development tasks in accordance with predefined timelines.
- Collaborated with the team to coordinate tasks and resolve technical challenges.
- Developed applications with a strong focus on performance, code quality, and maintainability.
- Deployed applications to production environments using hosting services or VPS.
- Create custom boilerplates to speed up project setup and ensure consistency.



## Backend Developer Intern

Kominfo DIY

Aug 2024 - Dec 2024

Yogyakarta, Indonesia

- Researched and implemented a server using X-Road for unified and secure data exchange.
- Optimized the processing of large spreadsheet files for fast and efficient data reading.
- Developed image detection capabilities using YOLOv8 for CCTV analytics.
- Enhanced TensorFlow.js performance for vehicle detection.
- Lead technical discussions within the MSIB team.
- Refactored and optimized legacy backend code to improve performance and reusability.
- Engaged in discussions at the Jogja Smart Province Event.
- Created API documentation and other supporting technical documents.
- Actively participated in team meetings, providing insights and suggestions based on assigned tasks.



## Web Developer

ABP Incubator

May 2023 - May 2024

Yogyakarta, Indonesia

- Developed and launched custom web solutions for Micro, Small, and Medium Enterprises (MSMEs), tailored to their unique business needs and growth objectives.
- Managed the end-to-end deployment of both frontend and backend applications, ensuring seamless and reliable project delivery.
- Applied clean code and best practices across the full stack, significantly improving code quality, readability, and long-term maintainability.
- Collaborated with team members in strategic planning sessions to define project scope, troubleshoot technical hurdles, and ensure alignment with goals.
- Engineered responsive, mobile-first user interfaces, ensuring an optimal viewing experience across all devices.



## Frontend Developer (Part-Time)

Kartala Digital

Sep 2022 - Dec 2022

Bandung, West Java, Indonesia (Remote)

- Onboarding the newly hired developer into the project.
- Participated in team meetings, offered suggestions, modify the detailed task, and provided updates on deadlines.
- I helped to break down the task and calculate the task's points.
- Build the boilerplate/skeleton of the repository using a clean architecture and standard code formatting.
- Make global components that can be used in various views.
- Refactor the old code to make reusable components and improve performance.
- Make use of mobile-friendly views and responsive design.
- Provide solutions based on Go and Postgresql to the backend issue.



## **Backend Developer** Refactory

Aug 2021 - Aug 2022  
Sleman, Yogyakarta, Indonesia

- Developed efficient and maintainable software according to business objectives and needs of clients.
- Become involved with the OKR company's intense partnering programs.
- Take part in Refactory's short video campaigns.
- Participated in team meetings and offered suggestions.
- Update features and fix bugs on the Sev-2 app based on PHP's, Phabricator framework.
- Build an analytics system that filters data by time and updates dynamically.
- Using firebase, create a function to deliver notifications to a mobile device.
- Finish calculating massive amounts of data with numerous mine calculations.
- Solve the problem utilizing multithreaded processing, read, calculate, and store a large amount of excel data to the database.
- Use Rancher to deploy the app to Microsoft Azure using CI/CD.
- Create a PDF for a reporting system that automatically processes data with graphical input such as line charts, bar charts, pie charts, scatter charts, sankey charts, and another custom HTML element.
- Code review, bug fixing, and resolving issues.
- Fix the styles in a lot of the repository code using a linter.
- Improve and create the database design and discuss it with another developer.
- Build a unit test and achieve code coverage of greater than 80%.



## **Fullstack Developer** SMA Negeri 2 Kebumen

Jul 2019 - Aug 2021  
Kebumen, Central Java, Indonesia

- The Research and Purpose Solutions team implemented the proof of concept for static pages to dynamic pages using Codeigniter's PHP framework.
- Resolve CPU and memory leaks that were caused by malware on the server.
- Make a CMS website to manage all blogs, such as the main post, the organization post, the achievement post, the news post, and so on.
- Maintain and enhance the CMS with additional features and updates.
- Deploy the project to the server with a success rate of more than 85% in performance metrics.
- Create a voting app system that has a positive impact on the selection of organizations for the covid-19.
- Implemented encryption using AES-128 and AES-256 algorithms and secure back-end logic.
- Increase protection against XSS attacks, SQL injection, DDOS, and other threats.