

Iqbal Defri Prasetya

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EDUCATION

Andalas University

Undergraduate in Computer Engineering (Current GPA : 3.91)

Expected Graduation: September 2025

Padang, West Sumatra, Indonesia

September 2021 – Present

EXPERIENCE

PT Metro Indonesian Software

Backend Developer

Padang, West Sumatra, Indonesia

May 2024 – Present

- Designed, developed, and maintained multiple backend systems using Laravel, NestJS, Express.js, and databases (SQLite/MySQL).
- Collaborated with frontend and mobile teams to ensure seamless API integration, high performance, and data security.
- Implemented authentication, role-based access control, and optimized database queries for improved efficiency.
- Delivered scalable solutions tailored to client requirements, from small businesses to multi-branch enterprises.
- Implemented payment gateway integration Midtrans to support secure online transactions.

Key Projects:

- **Pharmacy Information System** – Laravel, SQLite: Inventory, purchase, sales, and report printing system.
- **Business Information System (Dansa Bonafide Indonesia)** – Express.js, SQLite: Multi-branch management including inventory, employees, cashier, payroll, KPI, and attendance.
- **Gameblink Booking System** – NestJS, MySQL, Midtrans: Online booking and payment integration with an admin panel for monitoring branches, users, and revenue.
- **Gekraf Sumbar Company Profile Website** – Laravel: Company profile with admin content management panel.
- **Hotel Information System API** – Laravel: Backend API for hotel monitoring mobile application.

Google Developer Student Club (GDSC) UNAND

Backend Developer Core Team

Padang, West Sumatra, Indonesia

November 2023 – June 2024

- Led backend development workshop and served as a speaker.
- Collaborated with teammates to create a safe and supportive environment for individuals interested in learning about information technology.

PT Metro Indonesian Software

Internship Trainee as Backend Developer

Padang, West Sumatra, Indonesia

March 2024 – April 2024

- Built a pilot backend project for a company profile website with authentication, authorization, and content APIs (teams, positions, partners, portfolios, articles, galleries).

RLA Digital Marketing Agency

Internship Trainee as Backend Developer

Padang, West Sumatra, Indonesia

January 2024 – March 2024

- Developed RESTful APIs to support the *Silungkang Playground* mobile application.
- Assisted in building the admin dashboard enabling administrators to manage content, user data, and playground activities.
- Collaborated with the mobile development team to ensure seamless backend–frontend communication.

Bangkit Academy 2023 by Google, GoTo, Traveloka

Cloud Computing Learning Path Student

Online

August 2023 – January 2024

- Collaborated with the Mobile Development and Machine Learning teams to build Gym Guide, an application that provides exercise instructions for gym equipment.
- Deployed APIs on Google Cloud Run and managed videos with Google Cloud Storage.
- Earned multiple cloud and backend certifications, while also developed soft skills, including time management and project management.

Neo Telemetry Student Organization

Backend Developer & Organizing Committee Member

Padang, West Sumatra, Indonesia

August 2022 – September 2024

- Developed multiple web-based systems in collaboration with the frontend team using Laravel and SQLite.
- Built SIPENJARU (Room Loan Information System) in partnership with the university's Student Affairs Office, enabling room booking management for the PKM building at Andalas University.
- Built Open Recruitment Website with registration and online exam features.
- Developed FireTech Website for competition information.
- Conducted web development bootcamps for open recruitment participants, teaching them backend fundamentals and project-based learning.
- Participated as an Organizing Committee Member, coordinating event committees and managing organizational activities across multiple internal and external events.

ACHIEVEMENTS

Gold Medal – MSU iRex 2025

Shah Alam, Selangor, Malaysia

June 2025

- Developed a monitoring system for otter presence and defecation activity detection using Raspberry Pi 5 integrated with a YOLOv11 object detection model accelerated by Hailo AI Kit.
- Built a Flutter-based mobile application to display real-time detection results, captured images, and historical logs.
- Utilized Supabase as the backend service for authentication, database management, and cloud storage.
- Integrated Raspberry Pi 5 with Supabase to store detection data and images directly from the device.
- Configured the device for continuous operation, optimized model inference performance with the AI accelerator, and ensured reliable data synchronization with Supabase.

2nd Place – Hackathon Competition 2024, hosted by CyberTech PNP

Padang, West Sumatra, Indonesia

December 2024

- Led the backend and blockchain development for “TheSuaraKu,” an Android-based online voting solution powered by blockchain and designed to integrate AI for secure authentication under the theme “E-Government: Enhancing Public Access and Efficiency.”
- Built the backend API using Express.js to handle authentication, voting submissions, and result retrieval.
- Developed blockchain smart contracts in Solidity and deployed them locally using Ganache to securely store and verify votes.
- Ensured transparency and tamper-proof voting by integrating blockchain with the backend system.
- Coordinated with mobile, AI, and blockchain teammates to deliver a functional prototype within a one-day timeframe.

2nd Place – Adiwidya Hackfest 2024, hosted by Kamil Pascasarjana ITB

Bandung, West Java, Indonesia

December 2024

- Developed “Kamek,” an Android application capable of classifying cocoa pod conditions using an embedded image classification model and predicting selling prices via a regression model under the theme “Driving Sustainable Development through Digital Transformation.”
- Built the backend REST API to provide additional features, including weather forecasts using third-party APIs, cocoa-related news, and disease analysis.
- Implemented data storage for prediction results and analysis outputs in the database for future reference.
- Contributed to the end-to-end development process from prototype creation to the final presentation at ITB, representing Andalas University.

Silver Medal – Product Innovation Competition at the International Agricultural Technology Conference (IATC) 2024

Padang, West Sumatra, Indonesia

December 2024

- Contributed to the development of an early prototype of “Kamek,” an Android application for cocoa pod classification and price prediction, integrating AI models and iterating the app within just a few weeks.

SKILLS & INTERESTS

Skills: Laravel, Node.js, Express.js, NestJS, RESTful API

Interests: Backend Architecture, API Security, Cloud Computing, Blockchain Solutions