

Adiyansa Prasetya Wicaksana

SOFTWARE ENGINEER

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Summary

Software Engineer passionate about building systems that scale. From **low-level programming** to **NLP research**, I've explored the full spectrum — now applying that breadth to **high-throughput payment systems** processing trillions in transaction volume. Driven by curiosity and a love for problem-solving, I thrive on tackling complex challenges and continuously learning new technologies.

Work Experience

Paper.Id

Indonesia

SOFTWARE ENGINEER

Jan. 2025 - Present

Paper.id is a leading Indonesian B2B payment and invoicing solution.

- Achieved **99% Payout Success Rate (5.4T IDR TPV)** and **90% Payment Success Rate (200B IDR TPV)** through partner integrations, asynchronous processing, exponential backoff, and intelligent routing.
- **Led partner integrations** and optimized Cross-Border payout systems handling **64B IDR TPV**, expanding currency and country support with robust retry mechanisms.
- **Led end-to-end development** of **Fraud Detection System (FDS)** and **Anti-Money Laundering (AML)** integrations with Fraudnet and Advance.ai, strengthening platform security and compliance.
- Built log explorer and query workflow features for internal AI tools, reducing manual debugging effort for engineering teams.
- **Tech Stack:** Golang, MySQL, RabbitMQ, GCP, Redis, Rust

Logisly

Indonesia

BACKEND ENGINEER

Jun. 2023 - Dec. 2023

Indonesia's largest B2B digital trucking platform connecting shippers with verified carriers.

- Built internal application using AppSheet to streamline Transporter Relations workflow, covering task assignment, tracking, and management.
- Redesigned Payment Request Invoice system for improved usability while maintaining clean UI/UX.
- Designed and implemented secure Open API for shippers with token-based authentication and Swagger documentation.
- **Tech Stack:** Yii, MySQL, MongoDB, Redis, React, AppSheet

Suitmedia

Indonesia

BACKEND ENGINEER INTERN

May 2023 - Sep. 2023

Leading Indonesian digital agency specializing in web/app development and digital transformation.

- Enhanced e-commerce platform for major outdoor equipment client, spanning Store, Warehouse Management (WMS), and Order Management (OMS) systems.
- Implemented end-to-end features for pick-up, booking, and delivery workflows, improving operational efficiency.
- **Tech Stack:** .NET (C#), Entity Framework, Hangfire, MySQL, RabbitMQ

Pintarnya

Indonesia

BACKEND ENGINEER INTERN

May 2022 - Aug. 2022

Employment platform for Indonesia's blue-collar workers, offering job matching and financial services.

- Built and optimized API endpoints for Pintarnya Kerja and Operational Dashboard, improving application performance.
- Integrated job listings platform with Google Jobs, Indeed, Jooble, and Trovit, expanding market reach.
- Reduced GMaps API costs by **Rp 40M/month** by building Indonesian geospatial data pipeline.
- **Tech Stack:** Golang, PostgreSQL, GCP

Education

Institut Teknologi Bandung

Bandung, Indonesia

Bachelor of Science - BSc, Computer Science

Aug. 2020 - Aug. 2024

- **GPA:** 3.87/4.00
- **Thesis:** Incorporating Parameter-Efficient Fine-Tuning into IndoLEM Evaluation Task (GitHub)
- **Relevant Coursework:** Algorithm & Data Structure, Software Engineering, Operating System, Distributed & Parallel System, Web Development, Machine Learning, Natural Language Processing

Project Experience

Lead Backend Engineer

Jan. 2023 - May 2023

- **Led a team of developers** and implemented **SCRUM methodologies** within the team's workflow to revamp the booking process for facilities at ITB.
- Built the backend using ExpressJS, Sequelize, GCP, and PostgreSQL, while also streamlining the process through the utilisation of CI/CD Github Runner and Google Cloud Run.
- Designed the database for the system, carefully considering its requirements and ensuring an efficient and reliable structure.
- **Tech Stack:** ReactJS, ExpressJS, PostgreSQL, Bootstrap, GCP, Docker, Google Cloud Run

Organization Experience

Learn with Us

Indonesia

Co-FOUNDER & MENTOR

Feb. 2021 - May 2021

- Tutored high school students in Physics and Mathematics to complement their preparation for the state-owned university entry test (UTBK).
- Succeeded in helping more than **50% of the students** to be admitted to **top state-owned universities** (ITB, IPB, ITS) & fully-funded scholarship.
- Achieved the target of **250+ participants** registration within **2 weeks** after the open registration.

Skills

Programming Languages Python, Go, C/C++, C#, Java, Haskell, JS, TS, SQL, Kotlin, PHP, Rust**Frameworks** Node.js, React.js, Express.js, Flask, .NET**Tools & Stacks** Git, PostgreSQL, MySQL, MongoDB, Redis, RabbitMQ, Consul, Vault, Docker, GCP