

Adriel Alfeus Hutabarat

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EXPERIENCE

Backend Engineer PT Datasintesa Teknologi Nusantara	Aug 2024 - Present
<ul style="list-style-type: none">Develop and maintain a BTS monitoring system for 5,000+ sites across multiple consortiums, tracking diverse KPI values and handling high data payloads with NestJS, TypeScript, and PostgreSQL.Manage dozens of scheduled Python scripts (cron jobs) for data extraction from various BTS formats that uses HTTP or SFTP depending on the vendor.Handle asynchronous data exports between NestJS and Python, and integrate BullMQ for job queue management and Elastic APM for performance monitoring.	
Software Engineer Itemgame	Jan 2025 - Present
<ul style="list-style-type: none">Built a high-performance e-commerce platform for game top-ups from the ground up, using Astro (TypeScript) for a lightning-fast, static-first frontend and Go to power robust, scalable backend APIs.Integrated NATS for both efficient caching and real-time communication—leveraging its KV store to reduce database load and latency, and using its job queues to ensure seamless service coordination and responsive task processing.Optimized infrastructure for peak traffic by containerizing all services with Docker and deploying CDN-optimized builds via Cloudflare, enhancing performance, scalability, and deployment reliability.	
Software Engineer Freelance	June 2024 - Aug 2024
Pilates Reform <ul style="list-style-type: none">Developed a Pilates website using Next.js and MySQL, incorporating features for package purchases, class bookings, loyalty programs, and milestone tracking.Built an intuitive admin panel for efficient data management, including discount control, and integrated WhatsApp notifications to boost user engagement and communication. Wijaya Door <ul style="list-style-type: none">Developed the Wisdoor portfolio website using Next.js and PostgreSQL, featuring an interactive 3D door configurator for user design and customization.Integrated Plasmic to streamline UI design, enabling efficient creation, seamless updates, and easy customization of the interface.	
Software Engineer Sebelas Maret University School ERP Project	Sep 2022 - June 2024
<ul style="list-style-type: none">Software Engineer specializing in Go and ReactJS, developing a web platform for managing tasks, grading assignments, student selection, tracking academic progress, and facilitating teacher-student interactions. It also allows parents to view report cards and make payments for school activities.Enhancing the web application with TypeScript, Tanstack Query, and Vite for improved performance and developer experience. Strengthened API documentation and improved frontend-backend alignment through the introduction of OpenAPI Specification (OAS) with type safety, ensuring a more reliable and seamless development workflow.	
Backend Engineer Bootcamp Startup Campus	Aug 2022 - Dec 2022
<ul style="list-style-type: none">Top performer in the Backend Engineer Track, contributing exceptional technical expertise to the success of the final project.Led the collaboration between the backend and data science teams, ensuring seamless teamwork and driving the project to exceed expectations.	

Frontend Engineer
P!NGFEST2021

Mar 2021 - Nov 2021

- **Designed and implemented a responsive Home UI** for both web and mobile for P!NGFEST2021, a major annual event for Himaster UNS, incorporating **animations and refined design elements** to create a seamless and visually appealing user experience.
- Worked closely with cross-functional teams to **optimize the website's performance, focusing on load times and technical efficiency**, while ensuring it was fully accessible and engaging for all users.

Staff Technology Department
Himpunan Mahasiswa Informatika UNS

Jan 2021 - Jan 2022

- **Crafted and delivered challenging coding problem sets** for IF Commit during IF Week, boosting student participation and technical growth.
- **Led the "Coding Task"** initiative for OSPRODI orientation, mentoring incoming Informatics students and building a strong foundation in programming skills.

EDUCATION

Sebelas Maret University

Bachelor of Computer Science (3.92/4.00)

- Active member of **Himpunan Mahasiswa Informatika** (Informatics Student Association)
- Lecture Assistant for **Programming Concepts** and **Web Programming Lab**
- Research Assistant specializing in **Federated Learning**

CORE COMPETENCIES

- Proficient in **Go, TypeScript, Python, JavaScript, and PHP**, with strong backend development experience
- Experienced in modular architecture, clean code practices, and **Agile methodologies** including Scrum and Kanban
- Skilled in **Google Cloud Platform (GCP), Docker**, and setting up efficient CI/CD pipelines
- Hands-on with **NATS and Redis** for messaging, task queues, and key-value storage, and **PostgreSQL** for relational data
- Practical experience using **Elasticsearch for APM** and observability
- Strong **Git** knowledge with collaborative workflows, pull requests, and branching strategies