Muhammad Yusuf Adi Purwanto

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EXPERIENCE

Zero One Group

Jakarta - Remote

Product Engineer III (Full-time)   *Jan 2024 - Present*

- **Built a Retrieval-Augmented Generation (RAG) system**, slashing query authoring time from 10m to **1m**, significantly boosting analyst productivity.
- **Redesigned and optimized DB schema**, reducing large insert processing time from **25m to 3m**, improving data integrity and scalability.
- **Implemented real-time updates with Server-Sent Events (SSE)**, simplifying engineering complexity and enhancing user engagement.
- **Refactored failure handling with exponential backoff**, minimizing retries and **increasing system resilience** under high loads.
- **Integrated Event Sourcing**, ensuring **data consistency, seamless state reconstruction, and real-time auditing** for **10K+ daily transactions**.

Product Engineer II   *Aug 2022 - Dec 2023*

- **Reduced API costs by 90%** for solar panel monitoring by optimizing third-party service requests, enhancing efficiency.
- **Developed critical calculation tools** for the oil industry, including a Viscosity Calculator and an Additive Calibration Calculator, improving accuracy and operational efficiency.
- **Mapped Indonesia's BTS towers and internet infrastructure** using Mapbox, accelerating digitalization efforts in 3T areas.

Creasimu

Yogyakarta - Remote

Fullstack Engineer (Contract)   *Dec 2021 - Apr 2022*

- **Designed, optimized, and maintained** core features of Creasimu's web app, improving performance and reliability.
- **Identified and implemented scalable solutions** to critical infrastructure issues, enhancing system stability and efficiency.

Stucel

Jakarta - Remote

Web Developer (Full-time)   *Jan 2021 - Nov 2021*

- **Built and optimized scalable applications**, including **custom WordPress solutions for businesses**, ensuring seamless system integration and reliability.
- **Collaborated cross-functionally** with engineers, designers, and clients to deliver impactful solutions aligned with business goals.

Widya Edu

Yogyakarta - Remote

Frontend Engineer (Internship)   *Aug 2020 - Oct 2020*

- **Developed and maintained responsive, high-performance websites**, ensuring seamless user experiences across devices and browsers.
- **Conducted rigorous cross-browser and mobile testing**, optimizing compatibility and accessibility for diverse audiences.
- **Implemented efficient data scraping solutions** for platforms like YouTube and Play Store, enhancing data-driven decision-making.

SKILLS

Technology Familiar With:
- **Misc:** Python, Golang, Javascript, Typescript, SQL.
- **DevOps & Infrastructure:** Docker, Linux, PostgreSQL
- **AI & ML:** LangChain, Agno, LangGraph

Languages: Indonesia (Native), English (Business Level)

EDUCATION

Pembangunan Nasional "Veteran" Yogyakarta University

Information Systems   *2018 - 2025*

- GPA: **3.77**
- Specializing in **Data Mining** and **Business** Research
- Bachelor's Thesis: **Customer Segmentation Using K-Means and RFM Analysis for Data-Driven Marketing Strategies.**

Startup Campus by Achmad Zaky Foundation

Founder Track Apprentice   *2021*

- Selected as **one of 60 participants** from over **4,000 applicants** across Indonesia.
- Achieved **Top 4** ranking in both **overall performance and Demo Day** during the incubation program.
- Completed an intensive entrepreneurial curriculum covering **Product Development, Growth, Teams & Culture**, and more, with mentorship from industry leaders at Bain & Company, Xendit, Dana, and AWS.