Muhammad Fahreza

Senior Fullstack Engineer - Team Lead

Jakarta, ID ◆+62895346122000 ◆ muhammadfahreza@gmail.com◆ Website◆ LinkedIn◆ Github

Business-driven engineer that balances engineering quality and timing in delivery. Over 10+ years of experience delivering web development, backend development, ERP projects, query optimization, data pipeline and Mobile apps. 2+ years in leadership and mentoring.

AREAS OF EXPERTISE

- React (NextJS / Gatsby / Vite)
- React Flow
- Node (NestJS)
- Typescript
- Python (FastAPI)
- Event-driven Microservices
- Open Telemetry
- Go
- Flutter

KEY ACHIEVEMENT

- Led server response time optimization project that reduced 6 minutes to 5 seconds by applying correct indexes and join table
- Led data-pipeline optimization and successfully reduced data build time from 7 hours to 30 minutes by time-based partitioning
- Led observability **revamp** project and built alert system using Grafana and Otel

EXPERIENCE

Lead Engineer — Autobahn Security — 2024 - Present

Autobahn Security *(autobahn-security.com)*: Germany based vulnerability management platform

- Led 6 members in integration team and delivered bug-free features by promoting clean-code
- Led React projects using various state management by using Mobx, Zustand and React-Query
- Created and promoted scalable monorepo for NestJS and React projects
- Created instant data generation that allows engineers to avoid slow query early before Production

Senior Software Engineer — Autobahn Security — 2021 - 2023

- Built a complete web-based internal mapping tool from scratch using NestJS, React
- Developed and maintained event-based NestJS microservices connected to Nats
- Innovated PDF generation using NestJS with React-based templating inspired by NextJS
- Built scalable report engine by using clean-architecture using FastAPI-Python
- Built Customer Dashboard that aggregates millions of row by pipelining data through DBT
- Led 6 engineers across Berlin and Jakarta as a Tech-Lead

Senior Software Engineer — Otoklix — 2020 - 2021

Otoklix *(otoklix.com)*: Automotive aftermarket startup

- Built a complete discovery and online booking in a Web app from scratch using Nextjs, React and Redux.
- Developed product discovery screen with dynamic filters using React and hooks.
- Refactored complex booking time suggestion functionality in Django

Software Engineer — 2013 - 2020

- Developed ERP modules to accommodate Hospital Information System using Python
- Improved Automated Truck Scheduling accuracy by **700%** by migrating SAS-analytic to Python
- Reduced render time of Nested Tree panel on enterprise dashboard by 400%
- Led ERP implementation in Manufacturing, Trade and Water Utility companies

Educator

- Delivered 5-day workshop of Python ERP Development using Odoo for 15 training batches
- IT, English and Math high-school teacher for 1 years

EDUCATION

Indonesia — Bandung Institute of Technology — 2009 - 2013

- B.Eng in Computer Engineering (*most prestigious national tech university*)