

Muhammad Fahreza
Senior FullStack Developer (React / Node / Typescript)

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Jakarta, ID ♦ +62895346122000 ♦ muhammadfahreza@gmail.com ♦ [Website](#) ♦ [LinkedIn](#) ♦ [Github](#)

Hard-working engineer that balances engineering quality and delivery speed. Over 10+ years of extensive experience from frontend and backend development, ERP projects, query optimization, data pipeline and mobile apps. 2+ years in leadership role. Created a similar App like **Miro** that works as a Vscode Extension by using ReactFlow.

AREAS OF EXPERTISE

- React (NextJS / Gatsby - GraphQL)
- Node (NestJS)
- Application-based sharding
- Typescript
- Python (FastAPI)
- Event-driven Microservices
- Open Telemetry
- Apache Airflow
- Flutter

KEY ACHIEVEMENT

- Reduced slow query time from 6 minutes to 5 seconds by applying correct indexes and join table
- Reduced data build time from 7 hours to 30 minutes by time-based partitioning
- Reduced PSQL data transformation to object storage from 15 minutes to 15 seconds by using pg-stream
- Led integration team that achieved 1-month bug-free applications
- Led observability **revamp** project and built alert system using Grafana and OpenTelemetry

EXPERIENCE

Team Lead	Autobahn Security	2024 - Present
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Autobahn Security (autobahn-security.com): Germany based vulnerability management **startup**

- 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
- Built and promoted scalable monorepo for NestJS and **React** projects to increase team code quality
- Built **instant data generation** that allows engineers to avoid slow query early before Production

Senior Software Engineer	Autobahn Security	2021 - 2023
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- Built a complete web-based internal mapping tool from scratch using NestJS, React and Zustand
- 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
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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% using virtualization
- Led ERP implementation in Manufacturing, Trade and Water Utility companies

Educator / Part-time Workshop Instructor

- Main instructor for Python Odoo Development workshop for 15 training batches
- IT, English and Math high-school teacher for a year

EDUCATION

Indonesia

Bandung Institute of Technology

2009 - 2013

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