Muhammad Tiyas Fachreza Akbar

Senior Full-Stack Software Engineer | Backend Architecture, Node.js/Golang, AI-Powered Web Platforms

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SUMMARY

Full-stack software engineer with 5+ years building backend services, mobile apps, and web platforms across startup environments. Core stack: Node.js, Golang, Nest.js, Next.js, React, TypeScript, GraphQL, PostgreSQL, MongoDB, Docker, Kafka, Redis, and microservices architecture. Experience includes AI-powered web platforms with n8n automation and AI voice integration, backend architecture for internal CMS systems, and real-time event-driven applications for mobile and web. Comfortable owning systems from database design through deployment.

EXPERIENCE

Senior Full-Stack Developer — Slash Digital

03/2025 – Present

- Built an AI-powered website for a client, integrating n8n automation workflows with AI voice and phone-call handling.
- Developed a full-stack supply chain application for a second client as both frontend and backend developer, deploying to AWS.
- Built an AI-assisted room design and furniture e-commerce platform for a third client, integrating multiple furniture supplier APIs and a payment gateway across mobile and web.
- Delivered across three concurrent client engagements spanning AI automation, supply chain, and e-commerce domains as an independent full-stack developer.

Backend Engineer — MPPK Prakerja

07/2023 – 03/2025

- Designed and maintained multiple backend services using Golang, Node.js, and gRPC, integrating with Elasticsearch to support frontend applications.
- Led development of an internal CMS system, focusing on performance and maintainability improvements.
- Collaborated with Product, QA, and Development teams in weekly Agile ceremonies, aligning backend work with business goals.
- Wrote unit and end-to-end tests and conducted code reviews to enforce coding standards across the team.
- Contributed to a shared design system for UI consistency across Next.js frontend applications.

Stack: Golang, Node.js, Nest.js, gRPC, Kafka, Redis, Elasticsearch, Docker, TypeScript, Ruby on Rails, Jenkins, AWS, Next.js, Material UI, Jest

Full-Stack Developer — Slash Digital

08/2021 – 07/2023

- Built and maintained 10 backend services using Express.js, GraphQL, Laravel, Sequelize, and Prisma, supporting multiple web and mobile frontend applications.
- Built and maintained a real-time mobile chat app for Android and iOS using event-driven architecture (MongooseIM).
- Built and maintained a mortgage application and an e-commerce web application across mobile and web.
- Designed database schemas with future scalability in mind; wrote unit and end-to-end tests and reviewed pull requests to maintain code quality.
- Participated in weekly Agile ceremonies with clients, Project Managers, Product Owners, and Scrum Masters toalign delivery with timelines.

- Served as Remote Hub Leader, organizing monthly activities and managing a budget for a distributed team acrossJapan, Singapore, Thailand, Armenia, and Indonesia.

Stack: Flutter, BLoC, Node.js, TypeScript, Express.js, Apollo Server, GraphQL, PostgreSQL, Sequelize, Prisma, MongooseIM, Laravel, React.js, Next.js, Material UI, Jest, AWS (Lambda, SES, SNS, S3, CloudWatch), Bitbucket, Docker, NGINX

Software Engineer — Maju Gemilang Indotech

01/2021 – 08/2021

- Built and maintained backend services and React Native mobile apps for 3 separate mobile applications.
- Built and maintained a healthcare web application.
- Developed a real-time chat feature using Socket.IO and event-driven architecture.
- Integrated third-party services — Twilio for SMS and IPaymu for payments — into backend and frontend systems.
- Planned and prioritized sprint tasks based on project timelines.

Stack: React Native, Redux, Express.js, Node.js, MongoDB, IPaymu, Twilio, Socket.IO, RESTful APIs, Microservices

EDUCATION

Master of Computer Science, Informatic Engineering
Sepuluh Nopember Institute of Technology — 2025

Bachelor's Degree, Applied Meteorology
IPB University — 2020

TOEFL Bootcamp
Rumah Inggris — 2021

TOEFL score 593; mentored TOEFL class

CERTIFICATES

- Flutter BLoC — From Zero to Hero Complete Course
- Deliver Software Faster with Microservices
- The Complete ReactJs Course — Basics to Advanced

SKILLS

AI & Automation
n8n workflow automation, AI voice/phone-call integration

Backend & APIs
Golang, Node.js, Nest.js, Express.js, Ruby on Rails, GraphQL, Apollo Server, RESTful APIs, gRPC, Microservices

Frontend
React.js, Next.js, React Native, Flutter, BLoC, Redux, Material UI

Integrations
Twilio (SMS), IPaymu (payment gateway), third-party payment/supplier APIs

Data & Databases
PostgreSQL, MongoDB, Sequelize, Prisma, Elasticsearch, Redis, Kafka

DevOps & Infrastructure
Docker, NGINX, Jenkins, AWS (Lambda, SES, SNS, S3, CloudWatch), Git, Bitbucket

Tools & Practices
Jest, Socket.IO, MongooseIM, Scrum/Agile

ADDITIONAL

Archery: won 1 Gold, 3 Silver, and 1 Bronze medal in archery tournaments; Lead of the Archery Club at IPB University; delegated to the National Scout Event (LATSARNAS).

Languages: English (Fluent), Bahasa Indonesia (Native)