

Fajar Maulana Firdaus

Perumahan Pantai Mentari cluster The New Hamilton blok DD15/32, Kenjeran, Bulak, Surabaya, Indonesia
fajarmaulanafirdaus29@gmail.com
(+62) 878-0887-3307

Dynamic Software Engineer with 6+ years of experience in the fintech sector, specializing in backend architecture, cloud infrastructure, and observability. Proven track record in delivering mission-critical systems, including e-money and QRIS issuing/acquiring integrations, enabling regulatory compliance and operational readiness. Skilled in building scalable, resilient platforms with TypeScript, AWS, and Kubernetes, while driving cross-team collaboration and knowledge-sharing. Recognized for transforming innovative initiatives into production-grade solutions with thorough documentation and seamless operational transitions.

Professional Experience

Software Engineer - Experiment
PT Sistem Inovasi Sinergi (Xendit)
February 2023–Present

- Contributed engineering work that enabled **BI Category 1 (money account issuance)** readiness for **E-Money-as-a-Service** (integrations, compliance-aligned changes, documentation, handover to BAU).
- Designed and implemented **E-Money** capabilities and **QRIS Issuing and Acquiring**, expanding payment channels and supporting revenue growth.
- Re-designed credit-card project architecture to enable integration with **Bank Mayapada**; stabilized **Bank BRI** credit-card integration by resolving production defects.
- Contributed to **Customer Portfolio, Risk and Fraud** Management.
- Supported migration of **E-Money-as-a-Service** from **Alicloud** → **AWS** to meet Bank Indonesia requirements; completed graduation from **Experiments** → **BAU** with docs and SOPs.
- Improved internal tooling: fixed **Xendit CLI** Windows setup (Kubernetes cluster switching) and enhanced the internal **Ledger** library for reliability/maintainability.
- Authored technical specs and domain docs; applied **DDD/CQRS** to clarify boundaries and reduce change risk.
- Recognition: **Top Performers** (2023 Q4 – 2024 Q1).

Tech: TypeScript, React, Next.js, PostgreSQL, Redis, PgBoss, AWS (EKS/EC2/SQS/SNS), Kubernetes, Helm, Terraform, Datadog, Sentry, Splunk, Retool.

Software Engineer
PT Sinar Digital Terdepan (Xendit)
January 2022–February 2023

- Built and maintained **Virtual Accounts**; integrated new bank channels to scale merchant options and regional coverage.
- New integrations: **DBS Indonesia, DBS Singapore**; evaluated Philippines expansion via **DragonPay/Standard Chartered**; added **Bank Neo Commerce**.
- Initiated **SNAP API** work to maintain **PJP** compliance with **Bank Indonesia**.
- Implemented **Blue-Green deployments** for Virtual Accounts, eliminating planned release downtime; **implemented Canary** to reduce blast radius and improve release safety/observability.
- On-call issue handler; improved documentation/SOPs to speed resolution; contributed to re-architecture for maintainability.
- Award: “**The YC**” (customer issue resolution).

Tech: TypeScript, Go, PostgreSQL, MongoDB, Redis, RabbitMQ, Kafka, AWS (EKS/EC2/SQS/SNS), Kubernetes, Helm, Terraform, Datadog, Sentry, Splunk.

Technical Lead

PT Bank Tabungan Pensiunan Nasional Tbk (PT Bank SMBC Indonesia Tbk), Jakarta, Indonesia

January 2021–January 2022

- Re-architected legacy systems to **event-driven designs**, improving responsiveness and reducing infrastructure cost.
- Implemented **ELK, Zipkin, Distributed Config, HashiCorp Vault, Circuit Breakers**; built a **Spring Boot AOP** logging library for consistent ELK ingestion.
- Delivered/maintained back-office apps: **Loan Corporate, GL Transactions, Insurance tracking, PT Pos Indonesia payroll integration, Reconciliation, Credit Card reconciliation**.
- Conducted contractor performance reviews; mentored **11 engineers across 3 teams** on best practices.

Tech: Java (Spring Boot 1.5/2), Node.js, Angular 8, MS SQL Server, Redis, Kafka, SFTP, Elasticsearch/Kibana, Zipkin, Vault, Resilience4j.

Developer Digital Product and Service Delivery

PT Bank Tabungan Pensiunan Nasional Tbk (PT Bank SMBC Indonesia Tbk), Jakarta, Indonesia

October 2019–January 2021

- Developed back-office applications for **corporate loans** and **general ledger transactions**.
- Leveraged **Test-Driven Development (TDD)** and **Pair Programming** methodologies.
- Collaborated with cross-functional teams to enhance product delivery efficiency.
- Managed database interactions utilizing **MS SQL Server** for optimal performance.

Tech: Node.js, React, React Native, Postgresql, Angular 8, Java, Spring Boot 1.5, MS SQL Server, Redis, Elastic Kibana.

Backend Developer

PT Dana Syariah Indonesia

August 2018–November 2018

- Developed a **sharia-compliant P2P fintech** application using PHP (Laravel) and JavaScript.
- **Optimized application performance**, ensuring seamless user experience.
- Conducted code reviews to maintain high-quality coding standards.
- Implemented robust testing protocols to enhance application reliability.

Tech: Laravel, PHP, Bootstrap, Javascript

Education

Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia

September 2015–September 2019

Bachelor of Computer Science (B.Sc.) / Sarjana Komputer (S.Kom.)

- **Undergraduate thesis:** "SEGMENTASI INTERAKTIF BERBASIS REGION MERGING PADA CITRA DENTAL CONE BEAM COMPUTED TOMOGRAPHY" (Interactive segmentation via region merging on dental CBCT images).
- **Selected coursework:** Image Processing, Network Programming, Operating Systems, Web Programming, Mobile Programming, Machine Learning, Deep Learning.
- **Teaching Assistant:** Network Programming, Operating Systems, Web Programming, Mobile Programming.
- **Lab Assistant:** Mobile Innovation Studio — supported student projects and mobile app prototyping.
- **Competitions:** Capture The Flag (CTF) participant.

Additional Skills

Core Engineering: TypeScript, Express, Java, Go, Python, Node.js, React.js, Spring Boot, Next.js
Cloud & Infra: AWS (EC2, EKS, SQS, SNS, Lambda), Kubernetes, Terraform, Redis, RabbitMQ, Kafka, PgBoss, BullMQ
Practices: Event-Driven Architecture, Microservices, DDD, TDD, Agile
Leadership: System Design, Technical Leadership, Team Mentoring