



# Muhammad Naufal

Software Engineer

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📍 Jakarta, Indonesia

📅 June 5, 2002

## SUMMARY

A versatile Software Engineer experienced in building robust backend and frontend systems using a wide range of modern technologies. Proficient in Java, Kotlin, Rust and Golang with deep knowledge of the Spring Framework and CI/CD pipelines using Jenkins, Docker, and Kubernetes.

Skilled in working with various databases including MongoDB, MySQL, PostgreSQL, and Redis. Experienced in event-driven architectures using RabbitMQ and Apache Kafka, with supporting tools such as K6 for performance testing and Elasticsearch for data search and analytics.

On the frontend and mobile side, capable of building clean UIs using Vue.js, Svelte, and Thymeleaf, as well as developing Android applications. Familiar with OAuth2 for secure authentication and microservice-based architecture.

A fast learner with a strong problem-solving mindset, passionate about creating scalable, maintainable, and high-performing software system

## EXPERIENCE

### Software Engineer

09/2025 - Present

PT Inacash Lentera Teknologi

- Designed and maintained scalable, high-traffic backend services using Go (Golang) to ensure reliable performance.
- Managed high-traffic systems with reliable performance
- Architected and optimized PostgreSQL database schemas and queries to enhance performance and reliability.
- Optimized balance calculation algorithms to ensure high accuracy and reduce processing time.
- Spearheaded the creation and implementation of SNAP (Standar Nasional Open API Pembayaran), Indonesia's national open API standard for payments.
- Led a major project to integrate multiple payment gateway providers, facilitating seamless disbursements across banks, e-wallets, QRIS, and Virtual Accounts.
- Developed a reconciliation system to validate internal data against switching systems.

Tech Stack: Go (Golang), Gin, Fiber, Echo, RabbitMQ, Grafana, PostgreSQL, Redis, ReactJS, AWS, Docker Swarm

### Research and Technology

Himpunan Mahasiswa Ilmu Komputer IPB (HIMALKOM)

Carry out research activities aimed at capturing the interests, opinions, and aspirations of students to build HIMALKOM as well as develop HIMALKOM websites

### Wordpress Developer

PT Kode Gama Teknologi

Assist Kodehive in providing dynamic websites for partner companies, using WordPress

### Freelance

PT Pertamina

Create a watermark feature for every image uploaded on the Pertamina website.

### IT Research & Development

05/2024 - 09/2025

PT Teleanjar Mitra Global

- Spearheaded the migration of the company's PPOB platform to Spring Boot, improving performance and scalability.
- Designed and implemented the database architecture (ERD) to meet business requirements and optimize efficiency.

- Architected and developed microservices for modular and scalable system architecture.
- Integrated multiple billers seamlessly using Spring Eureka for service discovery and load balancing.
- Built and automated the CI/CD pipeline using Jenkins, ensuring smooth deployment workflows.
- Deployed the platform on Alibaba Cloud with container orchestration using Kubernetes.
- Conducted comprehensive testing to ensure system quality and reliability:
  1. Unit testing for functionality validation.
  2. Stress testing with K6 to evaluate system performance under high loads.
- Leveraged modern technologies, including:
  1. Java and Spring Boot for backend development.
  2. PostgreSQL for relational data management.
  3. Redis for caching and session handling.
  4. RabbitMQ for asynchronous communication and messaging.
- Do some research:
  1. GraalVM
  2. Elasticsearch, Logstash, Kibana (ELK)
  3. Grafana, Loki, Prometheus

**Software Developer (Internship)**

07/2023 - 12/2023

PT Telekomunikasi Selular ↗

Standardizing software development processes at Telkomsel by conducting research on various technologies. I have been assigned to a project at Telkomsel, working with the Spring Framework (Java)

| EDUCATION                                                                                |                   |
|------------------------------------------------------------------------------------------|-------------------|
| Computer Science                                                                         | 08/2020 - 08/2024 |
| IPB University - Bachelor                                                                |                   |
| Science                                                                                  | 07/2017 - 07/2020 |
| SMAN 78 Jakarta                                                                          |                   |
| has participated in musical theater extracurricular activities as a musician (guitarist) |                   |
| SMPN 75 Jakarta                                                                          | 07/2014 - 07/2017 |
| SDN 05 Pagi Jakarta                                                                      | 07/2008 - 07/2014 |

|                             |              |               |              |
|-----------------------------|--------------|---------------|--------------|
| SKILLS                      |              |               |              |
|                             |              |               |              |
| Spring Framework            | Expert       | Docker        | Expert       |
| Java                        | Expert       | MySQL         | Expert       |
| Kotlin                      | Expert       | PostgreSQL    | Expert       |
| Thymeleaf                   | Expert       | ElasticSearch | Basic        |
| Maven                       | Expert       | MongoDB       | Intermediate |
| Gradle                      | Expert       | Jenkins       | Advanced     |
| Redis                       | Expert       | Rust          | Advanced     |
| K6                          | Advanced     | Golang        | Advanced     |
| Entity Relationship Diagram | Expert       | Oauth2        | Advanced     |
| Kubernetes                  | Intermediate | Android       | Basic        |

|              |          |            |          |
|--------------|----------|------------|----------|
| RabbitMQ     | Expert   | Ngrok      | Expert   |
| Apache Kafka | Basic    | Javascript | Advanced |
| Svelte       | Advanced | Wordpress  | Advanced |
| VueJs        | Advanced |            |          |

LANGUAGES

|         |        |           |        |
|---------|--------|-----------|--------|
| English | Fluent | Indonesia | Native |
|---------|--------|-----------|--------|