

# MUHAMMAD FATAN NAJUDA SARWAN

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Perum Duta Kranji Jalan Cendrawasih VI Blok B.158, Kota Bekasi, Jawa Barat, 17134

Backend engineer with 5+ years of experience delivering production transactional services and scalable architectures on PostgreSQL, AWS, and GCP, including production cloud migrations. Focus on reliability, maintainability, and observability (testing, code review, alerting). Hands-on with data pipelines: Airflow, dbt, BigQuery/GCS. Comfortable in Go, Python, and Rust; strong cross-functional collaboration and mentoring.

## Work Experiences

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### PT. Eratani Teknologi Nusantara - DKI Jakarta, Indonesia

Jun 2024 - Present

#### Sr. Backend Engineer

Tech Stack: Golang, PostgreSQL, MongoDB, Redis, AWS, GCP, NGINX, RabbitMQ, Linux, SQL, Docker, Git.

- Designed and implemented scalable backend architectures (Hexagonal & orchestration), improving performance by ~20%.
- Conducted code reviews and merge requests, mentoring junior developers to uphold coding standards and ensure stability.
- Analyzed feature changes, performed technical breakdowns, and provided mitigation strategies to ensure seamless development.
- Built internal notification systems for critical production errors, enabling faster incident response and improved MTTR.
- Led production migration from AWS to GCP (compute, data, storage), reducing downtime and operational cost.

### PT. Eratani Teknologi Nusantara - DKI Jakarta, Indonesia

Jun 2023 - Jun 2024

#### Backend Engineer

Tech Stack: Golang, PostgreSQL, MongoDB, Redis, AWS, GCP, NGINX, RabbitMQ, Linux, SQL, Docker, Git.

- Successfully refactored and modernized legacy code to become maintainable, by introducing SOLID principles, writing unit tests, and improving modularity.
- Collaborated cross-functionally with frontend, QA, PMs, and UI/UX teams to deliver systems on time and with minimal friction.
- Reduced bug potential through structured error handling and defensive coding strategies.
- Developed internal notification systems to alert teams on critical production errors, enabling faster incident response.

### GoEscape Academy - Indonesia

Apr 2025 - Present

#### Development Mentor

Tech Stack: Golang, PostgreSQL, Redis, RabbitMQ, Linux, SQL, Docker, Git.

- Developed effective teaching strategies to accelerate mentee comprehension of complex topics such as micro-services, database design, and architecture patterns.
- Emphasized industry best practices including clean code principles, SOLID, and test-driven development, while nurturing a growth mindset.
- Conducted personalized 1-on-1 mentoring sessions, ensuring tailored learning paths and continuous progress tracking for each mentee.

### Afteroffice Academy - Indonesia

May 2024 - Mar 2025

#### Development Mentor

Tech Stack: Golang, PostgreSQL, Redis, RabbitMQ, Linux, SQL, Docker, Git.

- Mentored 20+ mentees per batch, guiding them in backend development using Go and preparing them for professional engineering roles.
- Delivered practical, project-based training to 100+ mentees, effectively bridging the gap between theory and real-world application.
- Collaborated with fellow mentors to design and review scalable system architectures, fostering critical thinking and teamwork among mentees.
- Developed effective teaching strategies to accelerate mentee comprehension of complex topics such as micro-services, database design, and architecture patterns.
- Emphasized industry best practices including clean code principles, SOLID, and test-driven development, while nurturing a growth mindset.
- Conducted personalized 1-on-1 mentoring sessions, ensuring tailored learning paths and continuous progress tracking for each mentee.

### PT. Sentra Inovasi Prima (Yipy) - DKI Jakarta, Indonesia

Aug 2022 - Feb 2024

#### Backend Engineer

Tech Stack: Golang, MySQL, Redis, AWS, NGINX, Linux, SQL, Docker, Git.

- Developed and refactored RESTful APIs using Go, applying the MVC pattern for clear separation of concerns and maintainability.
- Designed and implemented scalable backend architecture to support application growth and performance.
- Led the migration from a monolithic system to a micro-services based architecture, improving system flexibility and deployment efficiency.
- Managed AWS infrastructure, including EC2, RDS, and S3, ensuring reliable and secure operations.
- Oversaw database design and optimization, ensuring efficient data access and integrity.
- Performed in-depth troubleshooting and issue resolution to maintain system stability.

- Collaborated closely with frontend developers to ensure seamless and consistent API integration.
- Applied Agile methodologies (Scrum) to manage sprints, tasks, and delivery timelines effectively.

**PT. Teknologi Inovasi Mandiri - Tangerang, Indonesia**

Jun 2022 - Oct 2022

*Backend Developer*

Tech Stack: Java Spring Boot, RabbitMQ, SQL, Git.

- Built and maintained RESTful APIs using Spring Boot for the E-SID application under the Ministry of Transportation, enabling efficient data access and system interoperability.
- Developed and supported internal systems at Bank BJB, including automation for end-of-day, end-of-month, and end-of-year processes.
- Led the successful database migration from MySQL to PostgreSQL, improving data performance, consistency, and scalability.

**PT. Fliptech Lentera Inspirasi Pertiwi (Flip ID) - DKI Jakarta, Indonesia**

Jun 2021 - Oct 2021

*Junior Backend Developer*

Tech Stack: Node JS, Express JS, Git, Postman.

- Developed RESTful API endpoints using Node.js and Express to support mobile application functionality.
- Implemented secure authentication mechanisms using Bearer Tokens and JWT for user authorization.
- Conducted manual API testing and validation using Postman to ensure accuracy and reliability of backend responses.

**PT. Bank Tabungan Negara (Persero) Tbk. - DKI Jakarta, Indonesia**

Aug 2020 - Mar 2021

*Web Developer*

Tech Stack: React JS, Git.

- Developed internal attendance web applications using CodeIgniter (PHP) for backend and React.js for frontend, integrating UI/UX designs into functional interfaces.
- Conducted regular maintenance and performance checks on internal web apps to ensure optimal functionality and uptime.
- Monitored and updated system logs using Unix/Linux environments to ensure system health and early detection of issues.

## Education Level

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**STMIK Bani Saleh - Kota Bekasi, Indonesia**

Aug 2017 - Aug 2021

*Bachelor of Information Technologies, 3.48/4.00*

- Capstone / Final project: designed an inventory application

## Projects and Skills

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- **PT. Nabati Group (Project Based) - Feb 2026 to May 2026:** Architected, maintained, and operated Go (Fiber) micro-services across inventory, sales, finance, and master data (MongoDB, Redis, RabbitMQ, gRPC/protobuf SDKs), integrated SAP HANA/NiFi pipelines, applied multi-tenant PH configuration, hardened observability/CI/CD/testing, and partnered with stakeholders for a stable Philippine rollout.
- **PT. Astra International Tbk (Project Based) - Nov 2024 to Jan 2025:** Initiated and developed a new backend system from scratch using Rust, laying a strong foundation for future scalability and reliability.
- **Academic Consultant Information Technology (Project Based) - Jun 2019 to Apr 2024:** Advised students on developing clear, research-oriented thesis topics and on preparing robust proposal documents; guided them through the thesis-writing process with emphasis on clarity, logical structure, and alignment with developments in technology; and provided technical consulting in backend development for web and Android applications, supporting the translation of concepts into functional systems.
- **Technical Skills:** Golang, Rust, Python, Spring Boot, Docker, AWS, GCP, Elasticsearch, Kafka, Redis, Apache Airflow, PostgreSQL, MySQL, BigQuery, GCS, Git, RabbitMQ, PagerDuty, New Relic, Microsoft Office, Postman, SQL, NoSQL, dbt
- **Language:** Bahasa, English