

SHOUMA NURUL FADILLAH W

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I am a Computer Engineering student at Gunadarma University with a strong interest in Software Engineering. I have basic knowledge of programming, data processing, and computer operation. I am detail-oriented, willing to learn new things, and ready to contribute in a professional work environment.

Project Experiences

MVP Web UMKM – Keluarga Pekong

Feb 2026 - Apr 2026

Backend Engineer

A point-of-sale web application built for a local small business to manage transactions and operations.

- Engineered a RESTful API using Node.js, Express, and Prisma ORM, backed by a PostgreSQL database for robust data management.
- Designed an event-driven architecture using Redis and BullMQ for asynchronous background jobs, automating unpaid order cancellations and inventory restoration.
- Implemented complex POS business logic, including dynamic voucher validation, tax calculation, and an absolute stock mutation audit trail to prevent inventory discrepancies.
- Developed a data extraction module applying ETL principles to generate comprehensive Excel reports (Raw & Pivot layers) for financial and stock analysis using ExcelJS.
- Containerized the backend infrastructure using Podman with multi-stage builds, ensuring persistent named volumes and optimizing production image size.

Kaiwa Rift

Dec 2025 - Feb 2026

Fullstack Engineer

A Sengoku-themed Japanese language learning web application designed to help users master Vocabulary (Kotoba) and Kanji through interactive trials and progress tracking.

- Built end-to-end as a solo full-stack project, orchestrating a React frontend and a Golang backend containerized with Docker.
- Developed a gamified assessment system featuring distinct trial modes (Meaning, Onyomi, Kunyomi) and dynamic level-locking mechanisms.
- Integrated Gemini 1.5 Flash API to serve as an AI-powered language mentor, providing interactive and context-aware learning support.
- Built with React.js, Golang, PostgreSQL, TailwindCSS, Framer Motion, and Docker.

Inventory Management System

May 2026

Fullstack Web Developer

A secure web application designed to streamline warehouse stock control, track item transactions, and prevent stock discrepancies.

- Built end-to-end as a solo full-stack project, implementing a custom MVC-inspired architecture and centralized routing without frameworks
- Engineered an automated stock calculation system utilizing database-level constraints and atomic PDO transactions (Rollback/Commit) to ensure strict data integrity
- Developed an analytics dashboard, secure authentication with password hashing, and bulk data management via CSV import/export feature

Real-Time Crypto Data Pipeline

Jan 2026 - Jul 2026

Data Engineer

A production-grade, event-driven data pipeline designed to ingest, process, and analyze real-time cryptocurrency market streams.

- Architected an end-to-end streaming data pipeline using Apache Kafka and PostgreSQL, optimizing broker configurations to handle high-throughput market data with minimal latency.
- Orchestrated complex ETL workflows using Apache Airflow, fine-tuning DAG scheduling and concurrency parameters to prevent scheduler overload during peak data ingestion.
- Integrated an automated monitoring system with the Telegram Bot API to detect market volatility and trigger real-time price anomaly alerts.
- Provisioned and managed a secure, rootless multi-container environment using Podman to isolate message queues, relational databases, and workflow orchestrators.

Education Level

Universitas Gunadarma – Depok

Sep 2024 - Present

Bachelor of Computer Engineering, 3.82/4.00

Skills & Achievements

- Python For Data Science g** (2026): Basic understanding of Python programming for data science, including variables, data types, control flow, functions, and basic data processing for data scientist.
- SQL g** (2026): Learned how to process unstructured text data using SQL and Regex, including text extraction, data cleaning, pattern matching, filtering, and validation of formats such as emails, phone numbers, and keywords.
- Microsoft Excel g** (2026): Gained practical skills in advanced Excel formulas, data cleaning, Pivot Tables, lookup functions, data validation, reporting, charts, and dashboard creation for professional data management.
- Microsoft Azure Ai g** (2024): Basic understanding of Artificial Intelligence, Machine Learning, Computer Vision, NLP, and Microsoft Azure AI services for cloud-based digital solutions.