

MIKHAEL CHANDRA GOK RIZKY HUTAHAEAN

Software / Backend Developer

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SUMMARY

Fresh graduate in Informatics Engineering with hands-on backend development experience, demonstrated by building and shipping AERO LAB, a production AI-powered stock analysis platform processing real-time data for 800+ Indonesian-listed companies. Combines self-directed software development with practical exposure to enterprise IT and engineering workflows from internships at PT. Schneider Electric and PT. Wasco Engineering. Comfortable across the stack: API design, data pipelines, third-party integrations, and deployment.

PROJECTS

AERO LAB — AI-Powered Quantitative Stock Analysis Platform

aero-lab.lunemich.dev | TypeScript, Node.js, Telegram Bot API, AI/LLM Integration

- Built and deployed an end-to-end stock screening platform covering 800+ IDX-listed companies, running 20 automated quantitative trading strategies (e.g. Breakout, Wyckoff Accumulation, CAN SLIM, VWAP Rejection).
- Designed 15+ REST API endpoints serving real-time price, fundamental (PER, PBV, ROE, DER), and foreign-flow data, integrated with an AI analysis layer for automated trade signal generation.
- Built a Telegram Bot with in-app Web-App mode for real-time signal delivery, plus a tiered (Free/PRO) access system.

eWTR — Welding Traceability & Document System

Laravel, Python, MySQL

- Designed a welding traceability and document-control system modeled on real EPCM workflows observed during the Wasco Engineering internship.
- Built relational data structures in MySQL to track welding records, inspection status, and document revisions.

EXPERIENCE

ML Engineer & Data Research Student

Jan 2024 – Jun 2024

Infinite Learning

- Designed and built a data pipeline automating data collection, preprocessing, and model deployment for an early childhood stunting-detection classification model.
- Fine-tuned model hyperparameters, improving classification accuracy; presented findings and methodology to program supervisors and research peers.

Intern, QC & Document Control

Jul 2024 – Apr 2025

PT. Wasco Engineering Indonesia (Oil & Gas EPC/Fabrication)

- Maintained and validated structured engineering drawing repositories supporting active fabrication projects, using Excel-based tracking and revision control.
- Supported the QC Document Control team in managing and validating technical documentation to maintain workflow efficiency across project stages.

Intern, IT Support

Jan 2020 – Apr 2020

PT. Schneider Electric Manufacturing Batam

- Diagnosed and resolved hardware, software, and network connectivity issues for employee workstations.
- Repaired and maintained laptops and desktops to minimize operational downtime on the manufacturing floor.

EDUCATION

Informatics Engineering (D3) — Politeknik Negeri Batam

Aug 2022 – Feb 2026

Associate Degree

Computer and Network Engineering — SMK Negeri 3 Batam

Jul 2018 – Jun 2021

- Represented school at the Provincial-Level Competency Competition (LKS) in Web Development.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL

Backend / APIs: Node.js, REST API design, Telegram Bot API, third-party API integration

Data: Pandas, data pipelines, data preprocessing, basic ML model tuning

Tools & Infra: Git, Linux basics, networking fundamentals, MySQL, Excel-based QC/document control

Languages Spoken: English (Fluent), Indonesian (Native)