

# MUHAMMAD QORDHOWI ABDURRAHMAN

Fullstack Engineer & AI Integrator

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## Profil

Informatics Undergraduate at Universitas Negeri Surabaya (UNESA). Specializing in Enterprise Architecture and AI Integration. Often serving as the Technical Backbone of the team, I merge Fullstack Development (Laravel/React) with Generative AI capabilities to craft intelligent ecosystems that deliver real business value.

## Technical Skills

- Languages: PHP, JavaScript (ES6+), Python (Data Science & AI), SQL.
- Frameworks: Laravel (Advanced), React.js, Next.js, Tailwind CSS, Bootstrap.
- AI & Data: OpenAI API (LLM Integration), RAG Implementation, Scikit-Learn, Pandas, ETL Processes.
- Infrastructure: PostgreSQL, MySQL, Git/GitHub, RESTful API, Postman, Vercel.

## Key Engineering Projects

### Predixi - Retail Intelligence & Forecasting Engine | Laravel, Python, Scikit-Learn, PostgreSQL

- Architected an end-to-end retail forecasting system combining a Laravel backend with Python microservices.
- Implemented Scikit-Learn algorithms to predict sales trends based on historical time-series data.
- Designed a robust PostgreSQL database schema to handle complex retail transactions and reporting.

### CS AI Hybrid - Intelligent Support System | React, Laravel, OpenAI API, RAG

- Engineered a "Human-in-the-loop" customer service platform using Retrieval-Augmented Generation (RAG).
- Integrated OpenAI API to provide automated, context-aware answers from company documentation.
- Developed a seamless "hand-off" protocol, allowing the system to escalate complex queries from AI to human operators in real-time.

### Sistem Sertifikasi LSP Elektronika Indonesia | Laravel, MySQL, RBAC

- Built an enterprise-grade certification platform currently used for managing professional certifications.
- Implemented complex Role-Based Access Control (RBAC) for admins, assessors, and participants.
- Automated the generation of thousands of PDF certificates with QR code verification features.

## Leadership & Organizational Experience

- Student Representative Council (DPM) Faculty of Engineering UNESA | Vice Chairman of Commission 1 | 2025
- Student Consultative Assembly (MPM) UNESA | Expert Staff | 2024
- Level Up Community | Future Leader | 2024

## Education

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|---|----------------|
| • MA Negeri 3 Jombang   Science Major                         | 2020 – 2023    |
| • Universitas Negeri Surabaya (UNESA)   S1 Teknik Informatika | 2023 – Present |

## Portfolio

- <https://mqordhowi.vercel.app/>