

# RUHIL MUHAMMAD UKASYAH

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## EDUCATION

### Universitas Gadjah Mada

Yogyakarta, Indonesia

Bachelor of Applied Science in Software Engineering Technology (GPA: 3.71/4.00)

Aug. 2023 – Present

Coursework: Backend Development, Web Programming, Database Management Systems, Software Engineering Projects.

## PROJECTS

### Padi Check (AI Disease Detection) | Nest.js, PostgreSQL, FastAPI

- Architected a scalable Microservices system, decoupling core business logic (Nest.js) from AI processing (FastAPI).
- Integrated Computer Vision model via REST API, achieving 92.4% accuracy in disease detection from user images.
- Implemented Prisma ORM to manage complex relationships between users, detection history, and articles.
- Deployed backend infrastructure using Railway and Supabase, ensuring cloud scalability.

### Akuna Indonesia (E-Commerce) | Express.js, PostgreSQL

- Led backend development for an e-commerce platform, designing REST API architecture using TypeScript.
- Integrated Xendit Payment Gateway and Biteship API, enabling real-time shipping calculation and automated payments with 100% uptime during testing.
- Secured system using JWT Authentication and Role-Based Access Control (RBAC) for Admins and Customers.
- Optimized Sequelize queries for heavy payloads, significantly reducing response time for product variants.
- Ran the project's backend on Railway and Supabase, ensuring everything was properly hosted and managed.

### Pharmacy Management System | Laravel, MySQL

- Engineered a complex Drug Repack Logic algorithm to automate unit conversion (bulk to retail), saving staff approx. 2 hours of manual entry daily.
- Built a high-performance API layer supporting Point of Sales (POS) for fast product lookup and checkout.
- Optimized SQL queries to handle thousands of drug stock records across multiple warehouse locations.
- Configured and deployed the application on a Linux VPS using SSH.

### Alganis Consignment System | Laravel, MySQL

- Developed a multi-store consignment system to handle automated reconciliation for retail outlets.
- Digitized manual workflows for an SMB client, reducing bookkeeping errors by approximately 90%.
- Created an automated financial reporting engine that aggregates sales data into visual dashboards.

## TECHNICAL SKILLS

**Programming Languages:** PHP, TypeScript, JavaScript, SQL, Python, Java

**Database & ORM:** PostgreSQL, MySQL, Prisma ORM, Sequelize, Eloquent

**Frameworks:** Nest.js, Laravel, Express.js, FastAPI, Next.js

**Tools & DevOps:** Docker, Git, Postman, Linux (SSH), Vercel, Railway, Supabase

**Languages:** Indonesian (Native), English (Upper-Intermediate [B2]).

**Others:** Video Editing, Game Design Concepts, 3D Animations (Blender)

## ACHIEVEMENTS & CERTIFICATIONS

**Golden Winner (2023):** Global House National English & Science Olympiad (Province Level).

**Huawei Certified ICT Academy:** HCIA-AI.

**Oracle Academy:** Database Programming with SQL.