






# FAHMI HEYKAL

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## EDUCATION

### Bhayangkara University of Jakarta Raya

Bachelor of Computer Science

Bekasi, Indonesia

Aug. 2020 – Aug. 2024

- Relevant Coursework : Data Structures & Algorithms, Software Engineering, Database Systems, Operating Systems

## PROFESSIONAL EXPERIENCE

### PT Pinetix Digital Solutions

Backend Developer Intern

Jakarta, Indonesia

Oct. 2024 – Dec. 2024

- Developed 12+ RESTful API endpoints using FastAPI, improving system functionality and reducing response time by 25%.
- Designed and optimized PostgreSQL database schemas for high-performance CRUD operations.
- Implemented JWT authentication with role-based access control for enhanced system security.
- Documented APIs using Swagger UI, improving team productivity by 30%.
- Applied Clean Architecture principles to create modular and maintainable backend components.

### Perum Damri

Programmer Intern

Jakarta, Indonesia

Feb. 2023 – Jul. 2023

- Automated internal workflows using Python scripts, reducing manual processing time by 30%.
- Migrated 10,000+ records via a custom ETL pipeline while maintaining 100% data integrity.
- Created complex SQL queries for business intelligence reports used in executive decision-making.
- Debugged critical system features and maintained comprehensive technical documentation.

## TECHNICAL PROJECTS

### Inventory Management API

Node.js | Express.js | PostgreSQL | JWT

- Designed a scalable inventory management backend supporting products, suppliers, purchase orders, and stock movements with normalized relational schema.
- Implemented role-based access control (admin, staff) with JWT authentication and middleware authorization.
- Developed stock audit logs, low-stock alerts, and CRUD endpoints with pagination and advanced filtering (by supplier, category, stock level).
- Integrated PostgreSQL transactions to maintain consistency during multi-table stock updates.

### Smart Resume Matcher

FastAPI | PostgreSQL | OpenAI API

- Engineered an AI-powered API to parse resumes and match them to job listings using OpenAI embeddings and cosine similarity ranking.
- Implemented PDF resume parsing pipeline with skill extraction, job category filters, and location-based recommendations.
- Built a logging and analytics system to monitor matching accuracy and user interaction patterns.
- Used PostgreSQL full-text search for keyword indexing and performance optimization.

### Real-Time Chat API

Golang | WebSocket | PostgreSQL | Gorilla WebSocket

- Built a production-ready WebSocket server in Go to support real-time chat for multiple users with concurrent messaging support.
- Implemented message broadcasting, active user tracking, and connection health checks (ping/pong).
- Stored chat history in PostgreSQL with support for paginated retrieval of the latest 50 messages per room.
- Designed chat room architecture supporting private and group conversations with join/leave notifications.

## TECHNICAL SKILLS

**Languages :** JavaScript (Node.js), Python, Golang, SQL

**Backend :** Express.js, FastAPI, Gorilla WebSocket, RESTful APIs, WebSocket APIs, JWT Auth

**Databases :** PostgreSQL, MySQL, SQLite (Joins, Indexing, Transactions)

**Frontend :** HTML, CSS, React (Basic), Bootstrap

**Tools & DevOps :** Git, Docker, Postman, pgAdmin, Pytest, Swagger UI, Linux CLI

**Concepts :** Clean Architecture, Real-Time Communication, Authentication, Pagination, Logging, ETL

**Soft Skills :** Problem Solving, Collaboration, Time Management, Technical Documentation