Felix Gratia Mangatur Manullang

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SUMMARY

High-performing Backend Developer with a stellar 3.94 GPA and a background in Supply Chain Management. Proven expertise in architecting complex, scalable systems using Python (FastAPI), PostgreSQL, and Docker. Experience includes building multi-tenant SaaS platforms, RAG-based AI solutions, and secure SSO authentication services from scratch. Passionate about applying Clean Architecture principles to solve real-world business problems with high-performance code.

EXPERIENCE

Alfagift (PT Global Loyalty Indonesia) – Tangerang, Indonesia

Internship (February 2025 - January 2026)

- Developed new user-facing web interface features to enhance user experience.
- Created modular and reusable code components to improve development efficiency.
- Applied web design principles to ensure cross-device compatibility and responsiveness across various platforms.
- Monitored website performance and traffic metrics to identify, troubleshoot, and resolve usability issues.
- Reviewed code quality and collaborated with the development team to plan future system upgrades and feature enhancements.
- Assisted in the end-to-end development of application features for both internal tools and public-facing websites.
- Contributed to comprehensive technical documentation, including instructional guides, project pitches, and technical specifications.

PT Samanasoft Inovasi Persada – Tangerang Regency, Indonesia

Internship (June - July 2023, June - July 2024, September 2024 - October 2024)

- June - July 2023: Developed an AI ChatBot for a hospital system to streamline the process of booking doctor consultations.
- June - July 2024: Created a Machine Learning model to provide medication dosage recommendations for patients.
- September 2024 - Present: Developed new modules and features to upgrade existing programs, ensuring continuous software improvement and technical innovation.

KEY PROJECTS

ATABOT – Universal Business Intelligence AI

- Built a RAG-based system using FastAPI and pgvector that adapts to any PostgreSQL schema without configuration.
- Implemented real-time data synchronization and hybrid search (SQL + Vector) for natural language querying.

ATLAS – Authentication & Authorization Service

- Engineered a robust SSO service supporting multi-tenant architecture and secure JWT authentication.
- Features include RBAC, AES-256 response encryption, and rate limiting, utilized across multiple internal applications.

AVENTORY – Inventory Management System

- Developed an end-to-end warehouse management system handling POs, stock transfers, and audit trails.

- Implemented complex business logic for stock validation and atomic transactions using Clean Architecture.

EDUCATION

SMA Budi Mulia Pematangsiantar (2018 - 2021)
Science major and a member of the Religious Division of the Student Organization (OSIS)

Polytechnic Multimedia Nusantara (2022 - Present)
- Entered the university with a scholarship from Quipper Campus
- Current GPA: 3.94 out of 4.0
- President of the E-Commerce Logistics Student Association (January 2023 - June 2024)
- Head of the Event Division in Anagata 2023 (new student orientation event)
- Chairman of ECLIVAL 2024 (festival organized by the E-Commerce Logistics Student Association)
- Chairman and Show Director of Inaugurasi 2024 (senate session welcoming new students)
- Participated as part of team "SquidWork" in the National Business Plan 2023 competition
- Achieved 1st Runner Up in the Podcast Competition category, competition organized by Politeknik Swasta Indonesia (PELITA)
- Participated in online courses, seminars, and training sessions, including:
  - Frappe
  - Samsung Innovation Campus Batch 5 (2023/2024)
  - International Training Centre

SKILLS

- Backend Engineering: Python (Expert), FastAPI (Advanced), Go (Golang), Clean Architecture, Microservices, RESTful APIs, Multi-tenancy Architecture, Role-Based Access Control (RBAC).
- Database & Storage: PostgreSQL (Complex Queries, Schemas, Triggers), pgvector (Vector Database), Redis (Caching), SQLAlchemy ORM, MongoDB.
- AI & Machine Learning: RAG (Retrieval-Augmented Generation), LLM Integration (OpenAI/Poe API), Vector Embeddings, Semantic Search, Jina AI.
- DevOps & Infrastructure: Docker, Docker Compose, Nats Jetstream (Message Broker), GitHub Actions (CI/CD), Linux Environment.
- Security & Auth: JWT Implementation (Rolling Tokens), OAuth2, AES Encryption, SSO (Single Sign-On) Development, Anti-Replay Mechanisms.
- Tools & Integrations: Cloudinary, Midtrans Payment Gateway, SMTP/Email Services, Geoapify, SerpAPI (Web Scraping).
- Other Languages: JavaScript/TypeScript, SQL, C#.

I hereby declare that all above-mentioned information is in accordance with fact or truth up to my knowledge and i bear the responsibilities for the correctness. All the courses mentioned above at the following link: [GratiaAchievement]. You can also visit my portfolio website at: graxya.is-a.dev.