

Felix Gratia Mangatur Manullang

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SUMMARY



High-performing Full Stack 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, currently applied as a Full Stack Programmer for the Secretariat General of the House of Representatives of Indonesia (DPR RI). 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

Sekretariat Jenderal DPR RI – Jakarta, Indonesia

May 2026 – Present

Full Stack Programmer – Bagian Administrasi Barang Milik Negara (State-Owned Assets Administration Division), Fixed-term Contract, placed via PT Persada Era Cendekia

- Develop, maintain, and repair applications for the State-Owned Assets Administration Division of the DPR RI Secretariat General.
- Provide mentoring and hands-on training on application usage to work units across the Secretariat General.
- Design and introduce new application features and system innovations for the division, including SIRANGGA V2, a redesigned asset inventory and return system.
- Carry out other official duties and assignments as directed by the department.

Alfagift (PT Global Loyalty Indonesia) – Tangerang, Indonesia

February 2025 – January 2026

Backend Developer – Internship

- 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

Jun–Jul 2023, Jun–Jul 2024, Sep–Oct 2024

Developer – Freelance

- 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 – October 2024: Developed new modules and features to upgrade existing programs, ensuring continuous software improvement and technical innovation.

KEY PROJECTS

SIRANGGA V2 – State-Owned Asset (BMN) Inventory & Return System

- Designed a 37-table relational database architecture for the DPR RI Secretariat General's asset inventory and return module, succeeding the legacy SIRANGGA system.
- Built and maintain the supporting applications, plus training materials for end users across DPR RI work units.

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

Polytechnic Multimedia Nusantara (2022 – 2026)

- Entered the university with a scholarship from Quipper Campus
- Graduated in 2026 with a final GPA of 3.94 out of 4.0 (degree title pending official conferral)
- 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

SMA Budi Mulia Pematangsiantar (2018 – 2021)

Science major and a member of the Religious Division of the Student Organization (OSIS)

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 responsibility for its correctness. All the courses mentioned above are available at the following link: [GratiaAchievement](#). You can also visit my portfolio website at: [graxya.is-a.dev](#).