MUHAMMAD RAFI GHALIB FIDELIGO

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EDUCATION

Universitas Indonesia, Bachelor of Computer, Computer Science, Faculty of Computer Science *2024 - Expected Aug 2028*

Technical Skills

Programming Languages: Python, Java, Dart, JavaScript, TypeScript, Go, SQL, HTML/CSS
Backend & APIs: Express.js, Django, REST APIs, gRPC, Gin, Spring Boot, GORM,
AI & Data: RAG Architecture, Prompt Engineering, LangChain, ChromaDB, Ollama, Sentence Transformers, PyMuPDF4LLM
Mobile & Frontend: Flutter, Tailwind CSS, Clean Architecture, Bloc/Cubit, Next.js
Cloud, Architecture & Tools: Docker, Microservices, PostgreSQL, Git, Postman, Figma, SDLC

ACHIEVEMENTS

Fund Winner - RISTEK Hackathon 2026 ***August 2026***

Secured **Rp20,000,000** in product development funding with a team by building **Tensia.id**, a digital health application focused on blood pressure management, selected to further develop and scale the idea.

EXPERIENCES

PT Errai Pasifik ***February 2026 - June 2026***

Software Engineer Intern

- Participated in a rigorous mentorship-driven internship at a global software development house, collaborating within a fully English-speaking professional environment.
- Architected and developed an enterprise-grade personal project, "SecondBrain AI" (detailed in Projects), under the technical guidance and code-review of senior engineers.

FUKI Fasilkom UI ***May 2025 - Present***

Vice Director of IT Force *May 2026 - Present*

- **Direct the end-to-end deployment and infrastructure management** of the internal FUKI website as the core administrator, ensuring operational stability.
- **Lead the acquisition and technical execution** of external client projects, delegating development workloads to upcoming staff members.
- **Architect and facilitate comprehensive internal training programs** to upskill new members in modern software development frameworks.

IT Force Staff *May 2025 - February 2026*

- Managed internal website maintenance, improved legacy code, and resolved user issues.
- Delivered client projects: a Next.js/Django portal for Lima Jaya and a WordPress site.

RISTEK Fasilkom UI ***March 2025 - Present***

Mobile Development Lead *February 2026- Present*

- Co-engineered feature development and critical bug resolutions for "TemanKuliah" alongside one other core developer, maintaining a production-level mobile application actively serving the university ecosystem.
- Took turns alongside other leads to instruct internal training classes, ensuring consistent technical onboarding for new members.

Mobile Development Member *March 2025 - February 2026*

- Architected the "StudyBuddy" capstone project using Clean Architecture & Cubit (BLoC), separating layers to ensure scalable state management and testability.
- Engineered complex gesture logic using Custom Painters and Animation Controllers, creating a seamless Tinder-like swipe experience for matchmaking.

PT Waskita Karya (Persero) Tbk ***January 2026- February 2026***

Software Engineer Intern

- Led the end-to-end development of an internal administration portal from initial UI/UX design to functional code implementation.
- Developed robust REST APIs via Express.js and structured PostgreSQL for enterprise data.
- Implemented secure authentication and strict input validation to ensure data integrity.

PROJECTS - VIEW ALL OF MY PROJECTS ON GITHUB

Secondbrain AI (Document Intelligence System) | *Go, Python, RAG, Ollama, gRPC, ChromaDB*

- Engineered a zero-context-loss RAG system for complex PDFs, running a local Qwen LLM via Ollama to ensure 100% data privacy without external cloud API reliance.
- Resolved "Entity Confusion" and multi-hop retrieval failures by implementing layout-aware parsing (PyMuPDF) and optimizing vector search using multilingual embeddings.
- Established a resilient data pipeline synchronizing file uploads, PostgreSQL metadata, and ChromaDB vector representations via a gRPC microservices architecture.

Smartphone-based Health Monitoring App | *Flutter, Mobile Frontend Integration* *(In Progress)*

- Engineered integration layers to capture real-time SCG/PPG biometric metrics from hardware sensors (camera & accelerometer) for backend AI processing.