

M. DAFFA RAYGAMA

AI Engineer · LLM Agent Systems · Real-Time AI Pipelines

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PROFILE

Junior AI Engineer with production experience building LLM agent systems, multi-agent orchestration, and real-time AI pipelines. Currently shipping AI-powered products at Sigma Cipta Utama using Ray Serve, FastAPI, and LiveKit WebRTC. Builder of Project AURA a full-stack AI companion with real-time STT, LLM, TTS, Live2D pipeline over WebRTC. Summa Cum Laude graduate (3.96 GPA) with TOEFL iBT 110. Passionate about proactive agent systems and multimodal AI.

WORK EXPERIENCE

Jr. AI Engineer | [Sigma Cipta Utama](#)

Jan 2026 – Present

- ▶ Architected a production multi-agent AI system on Ray Serve handling oil & gas drilling operations with ~50 tools routed via a custom FastAPI tools server.
- ▶ Built an enterprise multi-agent framework with typed protocol functions routing to specialized sub-agents across Excel, Google, Outlook, and internal company data integrations.
- ▶ Engineered real-time LLM streaming pipelines via OpenRouter API, supporting tool-calling split between static and dynamic tool execution.
- ▶ Developed an AI native live telemetry monitoring, threshold-based alert system, and autonomous mission lifecycle management.

Laboratory Assistant | [Advanced Software Engineering Lab, Telkom University](#)

Aug 2024 – Present

- ▶ Research assistant mining and processing 1M+ records from Hugging Face datasets for Mining Software Repository research.
- ▶ Developed an Inventory Management web app.
- ▶ Organized 3+ workshops and 10+ study groups on software modelling and quality assurance.

IT Intern | [Jadestone Energy](#)

Jan – Feb 2025

- ▶ Tracked and reconciled IT budget of USD 19,152 (CPB & WPB) over two months, identifying cost variances within 48 hours.
- ▶ Assisted in data gathering for daily field operational reports.

Web Developer | [Dictum, Telkom University](#)

Feb – Jun 2025

- ▶ Maintained WordPress site with 5+ monthly landing-page updates coordinated across 3+ divisions, acting as the sole content manager.

EDUCATION

Bachelor of Informatics | [Telkom University](#)

Aug 2022 – 2026

- ▶ **GPA: 3.96 / 4.00 - Summa Cum Laude**
- ▶ Thesis: "Prescriptive and Contextual Technical Debt Management with LLM"
- ▶ TOEFL iBT: 110 / 120 (C1 - Full Professional Proficiency)

TECHNICAL SKILLS

AI / LLM: LLM Agents, RAG, VectorDB, LangChain, Ray Serve, OpenRouter, Prompt Engineering

Infra: FastAPI, Docker, PostgreSQL, SQLite, pm2, LiveKit, WebRTC

Languages: Python, Go (Gin), Java (Spring Boot), JavaScript / TypeScript, C++

Frontend: Vue 3 / Vite, React, Flutter

ML / Data: TensorFlow, Pandas, Power BI, Hugging Face

Certs: Go Backend Dev, Microservices with Go

ADDITIONAL

- ▶ Competed in LINE Business Case, Computing Competitive Programming, SATRIA DATA.
- ▶ Languages: Indonesian (native), English (C1 - TOEFL iBT 110).