

JOSHUA DANIEL TALAHATU

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PROFESSIONAL SUMMARY

Backend-focused developer with hands-on experience in API design and strong foundations in Machine Learning. Seeking the LLM Developer Intern role at FXMedia to leverage strong technical foundations while deepening expertise in cutting-edge AI tools. Committed to mastering emerging LLM frameworks to deliver scalable solutions.

EXPERIENCE

GOOGLE SUMMER OF CODE (NUMFOCUS)

noWorkflow Project

May 2024 - Sep 2024

- Developed RESTful JSON APIs (Flask) for extract AST structures and serving graph payloads nodes/edges for a code-visualization tool, improving provenance comparison by 60%.
- Optimized visualization tool with automated diffing of trial definitions, enhancing efficiency in detecting discrepancies between trials by 30%.
- Delivered production-grade code via Git workflows, including automated testing and comprehensive API documentation for contributor onboarding.

BANGKIT CAPSTONE PROJECT

AIRA

Aug 2024 - Dec 2024

- Engineered deep learning models for pitch and rhythm assessment with ~92% ROC AUC in error classification.
- Built a scalable backend using Flask and Redis, implementing asynchronous worker queues to handle high-throughput audio data.
- Optimized real-time protocols (Android-to-Server), reducing end-to-end system latency to <300 ms for instant user feedback.

PROJECTS

STRATASEARCH - RAG SEARCH ENGINE

Nov 2025 - Dec 2025

- Engineered a local RAG pipeline using Django and LangChain, utilizing custom metadata scrapers and recursive chunking for streamlined data ingestion.
- Optimized retrieval precision using Multi-Query translation and FlashRank, employing context-aware Ollama prompts to distinguish deprecated code from modern best practices.

BANKPY - BANKING INFORMATION SYSTEM

Mar 2025 - May 2025

- Developed secure backend for a customer information system using Django/MVC featuring Two-Factor Authentication (TOTP) and AES field-level encryption for PII protection.
- Designed a digital signature mechanism (RSA-PSS) and an automated audit trail system to ensure transaction integrity and non-repudiation.

ACTIVITIES

INFORMATICS LOGIC & PROGRAMMING COMPETITION

Vice Coordinator of Problem Development

Oct 2024 - Feb 2025

STUDENT ORIENTATION

Information Division

Aug 2023 - Jun 2024

EDUCATION

UNIVERSITAS SURABAYA | Bachelor of Informatics Engineering

Major in Data Science & Artificial Intelligence

GPA: 3.8/4.0

Relevant Coursework: Data Science Programming, Digital Image Processing, Special Topic in Data Science & Artificial Intelligence, Machine Learning, Intelligent Information Retrieval, Deep Learning

ADDITIONAL

Language: Advanced in Python (Flask, Django); Proficient in PHP(Laravel), Javascript/Node.js (hapi.js, Next.js)

Backend & Database: REST APIs, Postman, Docker, Github Actions; PostgreSQL, MySQL, SQLite, Redis

AI Tools: Tensorflow, Hyperparameter Tuning, Embeddings pipeline, HuggingFace

Certifications & Training: [Applied Machine Learning in Python\(2023\)](#), [Machine Learning Specialization - DeepLearning.AI\(2024\)](#), [Meta Back-End Developer\(2024\)](#), [Goggle Summer of Code 2024\(2024\)](#), [Dev Certification for Machine Learning with Tensorflow \(DCML\)\(2025\)](#)