Raditya Alfarisi

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PROFESSIONAL SUMMARY

Software Engineering student specializing in machine learning, deep learning, and AI system development. Three months into the field but already shipping real products — built a micro deep learning library from scratch, developed a school-wide face recognition system using FastAPI, ANN, and Qdrant, and actively reverse-engineering modern model architectures. Experienced in full-stack development and ML system architecture design. Current target: building a large language model (LLM) from scratch.

WORK EXPERIENCE

ML Head Division and Full-Stack Developer

TEFA SMKN 4 Payakumbuh | SMKN 4 Payakumbuh | June 2018 - Present

- Lead the ML division end-to-end — responsible for data pipeline design, model experimentation, training, and deployment to production.
- Designed and developed system architecture integrating machine learning inference into full-stack applications, ensuring stability and scalability under real production load.
- Architected the ML serving layer for a school-wide face recognition system: FastAPI for REST API, custom ANN algorithm for similarity search, and Qdrant for vector storage — enabling real-time face matching across hundreds of student records.
- Handled full-stack development responsibilities including frontend (Next.js), backend (Golang), and ML inference service (FastAPI).

EDUCATION

Software Engineering (Rekayasa Perangkat Lunak)

SMKN 4 Payakumbuh | Lamposi Tigo Nagari | June 2024 - Present

- Majoring in Software Engineering with deep focus on applied machine learning and system design. Built and shipped production-grade projects under TEFA, including a school-wide face recognition system.
- Active member of the ML division — learning by building, not just studying.

Junior High School - Madrasah Tsanawiyah (MTs)

MTSN 5 Lima Puluh Kota | Nagari Situjuah Batua | June 2021 - April 2024

- Active member of OSIM student organization. Contributed to planning and executing multiple school events — developed early skills in team coordination and project management.

TECHNICAL SKILLS

Programming Languages: Python, SQL

ML / DL Frameworks: TensorFlow, NumPy, Pandas, LangChain

AI / ML: Deep Learning, Neural Networks, Computer Vision, ANN, Object Detection (YOLO), Face Recognition, Vector Search, LLM

Backend: FastAPI, Golang

Frontend: Next.js, Svelte

Cloud / Infra: Google Cloud Platform, Google ADK, Qdrant

Other: System Architecture Design, REST API Design, Data Pipeline, Model Deployment

LANGUAGES

Indonesian: Native

English: B1 - Pre-intermediate

Arabic: A2 - Pre-intermediate

Japanese: A2 - Pre-intermediate

HOBBIES

Chess (avid player — thinking 5 moves ahead turns out to be good training for debugging). Anime enthusiast.