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Irsyad Dzulfikar

Software Engineer (AI/ML)

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Software Engineer with 3+ years of experience building and deploying production-grade AI-powered systems end-to-end. Proficient in Python and TypeScript, with hands-on experience integrating LLMs and building scalable backend services using Flask, Django, and Kubernetes (GKE). Proven ability to own full systems — from architecture design to cloud deployment — in fast-moving, ambiguous environments. Passionate about leveraging AI to create products that make a real impact.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, C++ (Academic)

Backend: Flask, Django, REST APIs, MongoDB, PostgreSQL

Frontend: TypeScript, HTML, CSS

AI / LLM: LlamaIndex, Groq API, RAG systems, OpenCV, PyTorch, YOLO, ONNX

MLOps & Cloud: Docker, Kubernetes (GKE), GCP (Vertex AI), MLflow, DVC, GitLab CI/CD, VictoriaMetrics, Grafana

EXPERIENCE

AI Engineer

March 2025 - Present

ENB Mobile Care

South Jakarta, Indonesia

- **System Architecture:** Architected a complex multi-stage ensemble pipeline comprising 6 specialized AI models (Detection, Classification, Segmentation) to automate smartphone grading — owning the full system from design to production.
- **Infrastructure & Scalability:** Led migration from Docker Swarm to Google Kubernetes Engine (GKE). Optimized HPA configurations per microservice, fine-tuning CPU/RAM limits for cost-efficiency and low latency under production load.
- **MLOps & Observability:** Built end-to-end training pipelines on GCP Vertex AI with MLflow and Artifact Registry for model management. Implemented real-time monitoring using VictoriaMetrics and Grafana for inference latency tracking.
- **Model Optimization:** Benchmarked 10k+ samples across YOLOv8/v10/v11/v12/26 architectures, upgrading detection and segmentation engines to achieve superior accuracy on subtle defect cases.
- **Feature Development:** Built a real-time OCR solution for Automatic Trading Machines, enabling fully paperless transactions and reducing data entry errors.

AI Engineer

April 2024 - December 2024

Lawencon International

South Jakarta, Indonesia

- **LLM Integration:** Engineered a CV Parsing & Scoring pipeline using LlamaIndex and LLMs (Groq API) to extract insights from unstructured documents, reducing manual screening latency by 50%.
- **RAG-based Application:** Developed FAQ & Virtual Assistant bots using Flask and MongoDB, leveraging Retrieval-Augmented Generation (RAG) for high-concurrency HR automation inquiries.
- **Data Pipelines:** Integrated analytics pipelines for the Linov BI project to visualize recruitment metrics and deliver actionable HR insights.

Junior AI Engineer

Indonesia AI

AUGUST 2023 – FEBRUARY 2024

Depok, Indonesia

- Developed a **Vehicle Detection System** utilizing **Object Detection algorithms** to identify and count vehicles in traffic imagery, achieving an **86% accuracy rate** on validation datasets (Roboflow).
- Built a **Waste Classification model** to distinguish organic vs. inorganic materials, optimizing the CNN architecture to achieve **82% precision** in identifying hazardous objects.
- Collaborated on defining data annotation standards and preprocessing pipelines to improve model generalization on diverse dataset conditions.

Projects

Axiom Alpha | *Full-Stack Web Application*

Django, Python, HTML, CSS · axiomalpha.online

Built and deployed a full-stack investment analysis web platform featuring [stock screener / market data / portfolio tracking — sesuaikan dengan fitur aktualnya]. Independently architected backend with Django, designed custom frontend, and managed end-to-end cloud deployment.

Personal Portfolio Website

TypeScript (95%+), CSS · zulfikarirsyad.my.id · github.com/sadisad/personal-website

Designed and built a personal portfolio site with a TypeScript-dominant codebase. Independently deployed and maintained in production.

EDUCATION

Bachelor of Computer Software Engineering, *Telkom University*

March 2023

Certifications

- Building Systems with the ChatGPT API
- Prompt Engineering with Llama 2 & 3
- Full Stack Data Science Academy
- Supervised Machine Learning: Regression and Classification
- Database Programmer (BNSP)
- AI Career Bootcamp for Computer Vision Batch 1 (2nd Place)