

Work Experience

AI Automation Engineer

RedAwning
Remote, USA

Dec 2025–Present

- RedAwning is a leading vacation rental distribution and technology platform serving independent property managers worldwide.
- **Sole technical lead** for the company's **AI initiative**, owning end-to-end delivery: hardware selection, **local inference server** (vLLM/llama.cpp), backend integration, frontend design and aligning direction with stakeholders up to **CEO level**.
 - Architected **LLM-based listing generation** and a **RAG-powered AI assistant**, reducing per-listing creation time by **~90%** across **100–250 properties daily**.
 - Built **CI/CD infrastructure from scratch** using **Jenkins and Docker**, reducing WebApp deployment to **~2 minutes** and **Airflow to ~30 seconds**; cut incident recovery from **days to under 5 minutes**.
 - Modernized **engineering workflows and operational tooling** across **internal tools**, **Airflow pipelines**, and **EC2 batch jobs**, introducing CI/CD standards, pipeline conventions, and documentation practices.

Algorithm Engineer

ByteDance
Jakarta, Indonesia

Feb 2024–Aug 2024

- ByteDance is a global technology company behind TikTok, Douyin, and TikTok Shop.
- Integrated **hundreds of thousands** of product attributes using deep learning–based attribute matching and semantic search, **reducing manual verification efforts by 15%** and accelerating onboarding of new product categories.
 - Standardized and optimized multimodal & multilingual attribute extraction workflows (LLM + Vision Models) across **5 languages**, improving consistency of product listing quality and internal review efficiency.

Senior Data Scientist

Tokopedia
Jakarta, Indonesia

Jul 2019-Feb 2024

- Tokopedia is one of Indonesia’s largest technology & e-commerce companies.
- Led end-to-end development of automated **product categorization** systems using deep learning and **active learning**, achieving **>95% accuracy**, **70% less labeled data**, and contributing to a **1.3× uplift in transaction revenue** from improved search & browse experience. (Published 2021, 2023)
 - **Built and deployed BERT-based product attribute extraction across 5 parent categories with >90% accuracy**, enabling processing of **millions of product listings at scale**.
 - Designed a production-ready **multimodal sensitive content/product classifier** (Text + Image) with **>90% accuracy**, resulting in **zero policy-violation escalation tickets during Ramadan**, a critical peak period. (Published 2021)
 - **Led a team of 5** to develop internal **Active Learning and LLM-assisted labeling platforms**, adopted by multiple teams and driving a **2× increase in model development productivity**.

Software Engineer Intern

GDP Labs
Yogyakarta, Indonesia

Jul 2018–Aug 2018

- GDP Labs is a technology company specializing in AI, blockchain, cloud, and mobile/web platforms.
- Implemented a real-time **on-the-fly subdomain provisioning** feature for the company’s microblogging platform, improving deployment flexibility for client demo environments.

Education and Certifications

● **B.Sc. Computer Science**, Universitas Gadjah Mada, Indonesia. GPA: 3.63 / 4.00

2015–2019

Technologies and Languages

- **Languages:** Python, SQL, JavaScript, C++
- **Tools & Platforms:** GCP, AWS, Git, Docker, Kubernetes (ArgoCD), Cloud Run, BigQuery, Airflow, Milvus, Jenkins, Superset, vLLM, llama.cpp, Claude API
- **Framework & Libraries:** PyTorch, TensorFlow, Scikit-learn, YOLO, LangGraph, LangChain, CrewAI, Flask, React
- **Observability & MLOps:** MLflow, TensorBoard, New Relic, Grafana
- **Specializations:** Machine Learning, Deep Learning, NLP, Computer Vision, Multimodal LLMs, RAG, Fine-tuning, Agentic Systems, LLM Pipelines, Model Monitoring