

RERE ARGADewanata

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Summary

Informatics Engineering graduate from ITS, currently working as an AI Engineer. I build end-to-end AI solutions across large language models, machine learning, and computer vision, covering the full lifecycle from model development and data engineering to cloud deployment on AWS and Google Cloud. I also bring leadership and teaching experience, along with a background in robotics, embedded systems, and full-stack web development.

Education

Institut Teknologi Sepuluh Nopember (ITS)

2020 – 2024

Bachelor of Informatics Engineering (S.Kom.) (Final GPA: 3.79/4.00)

Surabaya, Indonesia

Google Bangkit Academy 2023 led by Google, Tokopedia, Gojek, and Traveloka

Mar – Jul 2023

Machine Learning Cohort

Remote

Work Experience

Cloud Kinetics Indonesia

Aug 2026 – Present

AI Engineer

Jakarta, Indonesia

- Build cloud-based AI solutions on AWS with Amazon Bedrock and Amazon Bedrock AgentCore.
- Deliver AI and data solutions on Google Cloud with Gemini Enterprise and BigQuery.
- Deep dive into AWS and GCP architecture and their surrounding services, from data platforms to deployment.

PT Altimedia Cipta Visitama

Aug 2024 – Aug 2026

AI Engineer

Jakarta, Indonesia

- Built an ML pipeline for OEE prediction in manufacturing, with MLflow handling experiment tracking and monitoring.
- Built an AI chatbot agent system, using Langfuse for observability and tracing.
- Fine-tuned LLMs to improve response accuracy, context awareness, and output structure.
- Designed a custom RAG pipeline that retrieves documents from Azure SharePoint, and extended it to query structured SQL data via Model Context Protocol (MCP).

Data Engineer

- Designed and built the company's data pipeline architecture from the ground up.
- Developed ETL workflows in Apache Airflow to populate the data lake, data warehouse, and data mart used by analytics and web applications.
- Integrated and standardized data ingestion from multiple sources, including APIs and Excel files stored in SharePoint.

Direktorat Jenderal Pendidikan Tinggi, Riset, dan Teknologi Kemendikbudristek

Aug – Dec 2023

AI Engineer Intern

Jakarta, Indonesia

- Led a team of 13 interns in building a metaverse-based virtual assistant that guides Indonesian students through the history and architecture of Borobudur Temple, using LangChain.
- Evaluated several candidate language models with ROUGE and BLEU metrics to select the best fit for the use case.
- Deployed the system for integration with existing educational platforms.

Banyubramanta ITS | Underwater Robot Research Team

Feb 2022 – Nov 2023

Remotely Operated Vehicle (ROV) and Autonomous Underwater Vehicle (AUV) Programmer

Surabaya, Indonesia

- Developed a robot navigation algorithm that uses YOLOv5 and PyTorch for object detection on camera input, combined with depth sensor readings.
- Wrote a Python program to integrate the STM32 microcontroller, camera, depth sensor, and gyro sensor through the Robot Operating System (ROS).
- Designed in Figma and built a web-based control interface with HTML, CSS, VueJS, and Bootstrap for operating the underwater robot and tuning its parameters.

Baksara

Oct – Nov 2023

Data Annotator (Contract, Project-Based)

Remote

- Collaborated with a team of 13 to annotate Javanese script image data in Roboflow for a mobile app that teaches the traditional Javanese script.

Projects

Nongki Google Bangkit 2023 Capstone Project	May – Jul 2023
<i>An Android app that recommends hangout spots based on user preferences</i>	
- Developed a recommender system that combines user preferences with sentiment analysis using TF-IDF and cosine similarity. - Built a large dataset of places and reviews scraped from Google Maps via API and Selenium, and applied IndoBERT with TensorFlow for sentiment analysis.	

Awards

1st Place Explorer Category ASEAN MATE Underwater Robot Competition 2023	May 2023
<i>by Marine Advanced Technology Education (MATE) International</i>	

Licenses & Certifications

Certified Partner Specialist Gemini Enterprise Deployment Google Cloud Skills Boost	Issued Aug 2026
Google TensorFlow Developer Certificate TensorFlow Certificate Program	Issued Oct 2023

Volunteer & Organizational Experience

Teaching Assistant Teknik Informatika ITS	Mar – Jul 2023
<i>Led lab sessions and developed 5 lab modules for 20 first-year students.</i>	
Staff of Research and Technology ITS Robotics	Mar 2022 – Apr 2023
<i>Developed and delivered training on programming for new members.</i>	
Liaison Officer (LO) Kontes Robot Indonesia (KRI) 2022	Jul – Aug 2022
<i>Served as LO for the dance art robot competition, overseeing finalists from various universities in Indonesia.</i>	

Technical Skills

- Programming Languages:** Python, JavaScript, TypeScript, HTML, CSS
- AI & Machine Learning:** TensorFlow, PyTorch, Scikit-learn, YOLO, IndoBERT, Hugging Face, MLflow
- LLM & Generative AI:** OpenAI API, Amazon Bedrock, Amazon Bedrock AgentCore, Gemini Enterprise, Agentic AI, Model Context Protocol (MCP), LangChain, Fine-Tuning, Retrieval-Augmented Generation (RAG), Langfuse
- Data Engineering:** Apache Airflow, Dagster, BigQuery, MongoDB, PostgreSQL, SQL Server, MariaDB
- Back-End:** FastAPI, Flask, ExpressJS
- Front-End & Design:** NuxtJS, VueJS, Tailwind CSS, Bootstrap, Figma
- DevOps & Cloud:** AWS, Google Cloud (GCP), Azure, Docker, Kubernetes, CI/CD Pipelines
- Robotics & Embedded:** Robot Operating System (ROS), Arduino, STM32, Sensors, Actuators