

Ahmad Rosyihuddin

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EDUCATION

Trunojoyo Madura University (UTM)

2020 - 2024

Undergraduate Of Informatics

Current GPA : 3.77

EXPERIENCES

Software Engineer

PT. Sieto Utama – Backend Developer

Oct 2024 – Present

- **Document Management System (DMS):** Architected and maintained the backend infrastructure for an enterprise-grade document management platform, ensuring high data integrity and optimized retrieval performance
- **AI & RAG Integration:** Engineered advanced AI functionalities, including automated document translation services and **Retrieval-Augmented Generation (RAG)** to enable sophisticated contextual search and information extraction.
- **Infrastructure & DevOps:** Managed full server lifecycles in a hybrid environment using **Proxmox** and **VMware ESXi** virtualization; streamlined deployment workflows and optimized server resource allocation.

Capstone Project

Tani Tama – Machine Learning Engineer

Feb 2023 – Jul 2023

- Led a team of six individuals in the development of the "Tani Tama" Capstone project.
- Collaborated on an innovative application designed for the detection of diseases in rice plants.
- Actively involved in creating and implementing the machine learning model at the core of the application.

Apprenticeship

Bangkit Academy 2023 Machine Learning Graduates

Feb 2023 – Jul 2023

VOLUNTEERS

WargaLab

Laboratory Assistant

- Contributing to the maintenance of computers and resolving network errors, while also being on standby as an administrator in the laboratory.

Practical Assistant

- Teaching students based on practical modules, assisting with assignments or reports, and creating assignments.

Information Technology Center (ITC)

Speaker

Sep 2022

- An experienced technology practitioner leading the introductory Python session at the UKM Information Technology Center.
- Presents topics with a structured approach, aiding participants in grasping the fundamentals of the Python programming language.

PERSONAL PROJECTS

- News Classification based on summary results with Text Rank using Support Vector Machine method - created using scikit learn and implemented using streamlit

- Breast Cancer Classification using Random Forest method - created using scikit learn and implemented using streamlit
- News Keyword Extraction by using the Text Rank method - created using scikit learn and implemented using streamlit

SKILLS & CERTIFICATION

Certifications:

- TensorFlow Developer Certificate - Google Certified (2023 - 2026)

Backend Development:

- **Languages & Runtimes:** Python (FastAPI), TypeScript, Node Js, Bun.
- **Frameworks:** ElysiaJS, Express.
- **Databases:** PostgreSQL, MySQL, Redis.
- **Tools:** Restful API Design, WebSocket, Auth (JWT/OAuth), GraphQL.

Artificial Intelligence & Data:

- **Orchestration:** Mastra (Agentic Framework), Llamaindex, Langchain.
- **AI Implementation:** Retrieval-Augmented Generation (RAG), Autonomous Agents.
- **Vector Databases:** Milvus, PostgreSQL Database Vector.
- **Data Science:** TensorFlow, Scikit Learn, Pandas, Numpy, Matplotlib.

Infrastructure & DevOps:

- **Virtualization:** VMware ESXi, Proxmox VE.
- **Cloud & Networking:** Cloudflare (Tunnels/DNS), Tailscale, Mikrotik.
- **Containerization & OS:** Docker, Linux (Debian, Ubuntu, Armbian), Git, Fish Shell, Neovim.