Luthfie Yannuardy

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Internet Engineering undergraduate student with a strong interest on **Backend Development** and **AI-driven systems**, with hands-on experience in **FastAPI**-based backend services, **LLM** and **RAG** implementations, and secure web application deployment using **Docker**, **Nginx**, **CI/CD (Jenkins)**, and **Cloudflare**.

WORK EXPERIENCE

PT. Teknologi Server Indonesia (X-Code) – Yogyakarta, Indonesia   Jun 2025 – Aug 2025
Internship

- Designed and implemented a SOAR-based automated incident response pipeline using **Docker, Wazuh, Shuffle, TheHive, and Cortex** to streamline SOC workflows and alert management.
- Conducted penetration testing on internal web applications and participated in CTF challenges to identify system vulnerabilities and sharpen exploitation skills.
- Monitored internal infrastructure health, investigated resource anomalies, and executed direct remediation on affected virtual environments to isolate threats.

EDUCATION

Universitas Gadjah Mada – Yogyakarta, Indonesia   Aug 2023 – Aug 2027 (Expected)
*Applied Bachelor of Internet Engineering | **GPA: 3.85/4.00***

- **Tech Enthusiast Day 2024** *(Competition Staff)*: Designed competition rules and managed technical aspects of the event.
- **TGES 2024** *(Competition Staff)*: Supervised event execution and authored technical guidebooks.

PROJECTS

Homytech (Smart Home Prototype) | *IoT Course Project*
- Built a smart home system with a **NextJS** frontend and a containerized backend using **FastAPI**, **MongoDB**, **Docker**, and **JWT**, enabling real-time control via **WebSockets** and **MQTT** with **ESP32**.

AI Portfolio Chatbot (RAG-based) | *Independent Project*
- Developed a RAG-based AI chatbot using **n8n**, **Qdrant**, and **Google Gemini** for context-aware portfolio content retrieval.

Personal Portfolio Website | *Independent Project*
- Built a portfolio website with a **React** frontend and a custom **CMS** using **FastAPI** and **MongoDB**, with automated deployment via **Jenkins**, **Docker**, and **Cloudflare**.

Lumina Research (Autonomous AI Agent) | *Independent Project*
- Engineered an autonomous AI research agent using **LangGraph** and **Google Gemini** to synthesize cited reports from web and academic sources.

IoT Temperature & Humidity Monitor | *Embedded System Course Project*
- Built a real-time IoT monitoring system using **ESP8266**, **Blynk**, and **Firebase**.

AI Vulnerability Scanner | *Interdisciplinary Course Project*
- Developed an AI-assisted vulnerability scanner integrating **Nmap** and LLMs to automate vulnerability analysis and generate professional pentesting reports.

Adult Income Classification | *AI Course Project*
- Implemented Ensemble Learning and hybrid **CNN+LSTM** models for income classification.

SKILLS

Backend & Web Development: Python, FastAPI, WebSockets, JWT Authentication

AI: LLMs, Retrieval-Augmented Generation (RAG), LangGraph, n8n

Programming Languages: Python, C, SQL

DevOps & Tools: Git, GitHub, Docker, Nginx, Jenkins, Cloudflare

Databases: MySQL, MongoDB, Firebase, Qdrant

IoT & Networking: Arduino IDE, ESP, MQTT, Mikrotik

Cybersecurity: Nmap, Wireshark, Wazuh, Burp Suite, GoBuster, SQLMap

Soft Skills: Logical Thinking, Adaptability, Collaboration, Critical Thinking

Languages: Indonesian (Native), English (Professional)