



Luthfie Yannuardy

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Internet Engineering undergraduate student with strong interests in **Web Development**, **Cyber Security**, **IoT**, and **AI**. I have experience in building scalable backend services using **FastAPI**, deploying secure web applications with **Docker**, **Nginx**, **CI/CD pipelines (Jenkins)**, and **Cloudflare**.

WORK EXPERIENCE

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

Jun 2025 – Aug 2025

- 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
Applied Bachelor of Internet Engineering | GPA: 3.85/4.00

Aug 2023 – Aug 2027 (Expected)

- 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 containerized backend using **FastAPI**, **MongoDB**, and **Docker**, exposing REST APIs to a **NextJS** frontend.
- Enabled real-time device communication using **WebSockets** and **MQTT** with **ESP32**.
- Secured API access using **JWT-based authentication**.

Personal Portfolio Website | *Independent Project*

- Developed a portfolio website with a custom **CMS** using **FastAPI** and **MongoDB**.
- Automated deployment using a **CI/CD pipeline (Jenkins)** with **Docker** and **Cloudflare** for HTTPS and security.

Lumina Research (Autonomous AI Agent) | *Independent Project*

- Engineered a containerized autonomous AI agent using **LangGraph**, **Google Gemini**, and **Docker** to automate complex research workflows, synthesizing data from web and academic sources into comprehensively cited reports via **Streamlit**.

IoT Room Temperature and Humidity Monitor | *Embedded System Course Project*

- Built a real-time room temperature and humidity monitoring system using **ESP8266**, integrated with **Blynk** for visualization and **Firebase** for data logging.

AI Vulnerability Scanner | *Independent Interdisciplinary Course Project*

- Developed a web-based AI vulnerability scanner integrating **Nmap** and LLMs to automate threat analysis and generate professional reports.

Adult Income Classification | *AI Course Project*

- Implemented Ensemble Learning and hybrid Deep Learning (**CNN+LSTM**) models to classify adult income based on census data.

SKILLS

Web Development: Python, FastAPI, REST API, WebSockets, JWT Authentication

Languages: Python, C, SQL

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

Databases: MySQL, MongoDB, Firebase

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)