

Aqim Try Kurnia

Bogor, West Java • aqimtrykurnia27@gmail.com • 082262266485 • www.linkedin.com/in/aqim-try-kurnia/

Work Experience

Nusabin

AI Engineer

Jakarta, Indonesia

Oct 2025 – Present

- Collected real-world image datasets and trained YOLOv8 models for 29+ waste classes, achieving 89% mAP@0.5.
- Deployed a 24/7 Python inference service on Jetson Orin Nano for continuous real-time waste detection.
- Reduced manufacturing costs by 25% by replacing ultrasonic chamber sensors with computer vision-based fill-level detection.
- Designed a two-stage pipeline for material and brand detection, simplifying classes and enabling scalable brand expansion.
- Integrated Jetson inference with MCU control logic to automate waste sorting based on real-time detection results.
- Built an AWS S3 data pipeline to store inference outputs for model monitoring, dataset expansion, and iterative retraining.

PT Wijaya Karya (Persero) Tbk.

AI Engineer Intern

Jakarta, Indonesia

Aug 2024 – Feb 2025

- Developed an end-to-end PPE monitoring system to reduce reliance on manual helmet and safety-vest inspections.
- Curated field image datasets and fine-tuned YOLOv8, achieving 88.6% mAP for PPE detection.
- Deployed YOLOv8 inference on Raspberry Pi 5 with Hailo AI Kit for real-time CCTV processing.
- Integrated detection results with a centralized Laravel dashboard via MQTT, enabling remote safety monitoring.

IPB University

Teaching Assistant

Bogor, Indonesia

Aug 2024 – Oct 2025

- Supported practical courses in Python, Machine Learning, IoT, and Computer Networking, enabling hands-on learning through laboratory sessions.
- Guided and evaluated student projects, helping resolve implementation issues and improve system functionality.

Education

IPB University

Bachelor of Applied Science in Computer Engineering Technology, GPA: 3.74/4.00

Bogor, Indonesia

Jul 2025

Final Project: Real-time PPE detection using YOLOv8 on Raspberry Pi 5 with Hailo AI Kit; achieved 88.6% mAP.

Skills & Certifications

Technical: Python, C/C++, Deep Learning, Computer Vision, Object Detection, PyTorch, OpenCV, TensorFlow, NVIDIA Jetson, Raspberry Pi 5, Hailo AI Kit, STM32, Linux, Git, AWS S3, MQTT, REST APIs, Nginx, MySQL, MariaDB

Certificate of Competence in Hardware Installation Supervisor – BNSP (2025)

CCNAv7: Enterprise Networking, Security, and Automation – (2023)

CCNAv7: Switching, Routing, and Wireless Essentials – (2023)

CCNP Enterprise: Advanced Routing – (2023)

CCNP Enterprise: Core Networking – (2023)

Cyber Security Course Level Advanced – Course-Net (2024)

IT Network & Cyber Security Specialist – Course-Net (2024)

Languages: Indonesian (Native), English (Working Proficiency)