WIRIDLANGIT SULUH JIWANGGA

wiridlangit@gmail.com | Jakarta, Indonesia

Information Technology graduate from Institut Teknologi Sepuluh Nopember (ITS) with experience in mobile development, computer vision, and Internet of Things. Skilled in building end-to-end applications and intelligent systems using Kotlin, Python, and YOLO, with hands-on experience deploying real-time solutions on edge devices such as Raspberry Pi.

EDUCATION

Bachelor of Information Technology GPA: 3.74 / 4.00 September 2021 – July 2025
Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

SKILLS

Programming Languages: Python, C/C++, Kotlin, JavaScript
Frameworks & Libraries: Flutter, OpenCV, YOLOv8/v11, Firebase, Streamlit
Tools & Technologies: Git, Linux, Computer Vision, Deep Learning, Edge AI, Real-time Inference
Hardware & Data: Raspberry Pi, Hailo AI Kit, Arduino-compatible boards

WORK EXPERIENCE

System Development Intern, *PT. Bank Negara Indonesia (Persero) Tbk.* September 2024 – January 2025
- Developed and deployed a Streamlit-based dashboard website to visualize and process company data.
- Built an AI chatbot to provide instant answers related to company regulations and policies.

Android Developer Intern, *Jakarta Smart City* July 2024 – August 2024
- Created a digital transformation solution by converting a web-based system into a mobile application.

Mobile Development Cohort, *Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka* February 2024 – July 2024
- Developed practical skills in creating Android application using Kotlin.
- Making an AI-based application for trash detection.

RESEARCH EXPERIENCE

Violence and Sharp Object Detection, *Institut Teknologi Sepuluh Nopember* March 2025 – June 2025
- Developed a real-time computer vision system to detect physical violence and sharp objects in indoor public spaces using YOLOv11.
- Deployed detection pipeline on Raspberry Pi 5 integrated with the Hailo AI Kit for edge inference from USB webcam or CCTV input.

PROJECTS

Trash Detection Application June 2024 – July 2024
- Developed a machine learning–based application to detect trash and provide contextual information about detected waste.

Skin Cancer Detection Application March 2024 – June 2024
- Developed a machine learning–based application to detect skin cancer and provide binary predictions (Cancer / Not Cancer) along with confidence scores.

Smart Access Control System for Campus Gates May 2023 – June 2023
- Developed an electronic gate control system at ITS that opens and closes using student ID card taps.
- Built with ESP32, PN532 RFID module, and buzzer for authentication and feedback.

IoT-Based Smart Laboratory Monitoring System December 2022 – March 2023
- Integrated IoT devices as core infrastructure to enhance functionality, automation, and efficiency in laboratory operations.
- Monitored power consumption using PZEM-004T sensors and smart plugs, integrated with Home Assistant for centralized control and real-time energy tracking.

ADDITIONAL EXPERIENCE

- Earned certifications in Android Development (Dicoding) and Smart Cities – Management of Smart Urban Infrastructures (EPFL).
- Served as a teaching assistant for multiple university courses, including Mobile Development and Data Structures.
- Led the Media & Information Division of the IT ITS Student Association, managing social media, organizational branding, and effective communication with internal and external stakeholders.