MUHAMMAD NAJWAN SULVADLI

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Bojong Kulur, Kabupaten Bogor

A highly motivated technology enthusiast with experience in AI, IoT, and embedded systems. Currently interning at Antares - PT Telkom Indonesia, developing AI-powered edge computing solutions using Raspberry Pi 5, Nvidia Jetson, and AI Kit Hailo. Previously worked as a freelance programmer for PT Adhi Karya, focusing on automation and visualization tools. Skilled in software development, computer vision, and embedded AI, with a strong ability to work both independently and in a team to create innovative and impactful solutions.

Work Experiences

Antares – PT Telkom Indonesia – Jakarta, Indonesia   Dec 2024 – Present

AI & Embedded Systems Developer (Internship)

- Developed Raspberry Pi 5 with AI Kit Hailo, significantly improving accuracy and processing power for AI-based edge computing.
- Built multiple Computer Vision AI models optimized for real-time inference, enhancing project efficiency at Antares.
- Successfully implemented Nvidia Jetson for AI vision-based edge computing solutions.
- Enhanced AI model performance, contributing to higher-quality AI solutions and increasing Antares' technological capabilities.

PT TAS - Vendor for PT Adhi Karya – Jakarta, Indonesia   Jan 2024 – Jan 2025

Programmer Freelance / Project-Based

- Designed and developed automation plugins for cost calculations and safety equipment visualization in Autodesk Revit, supporting PT Adhi Karya's construction projects.
- Improved efficiency of BIM Modeller and QHSE teams by up to 80% through technical solutions based on visual programming.
- Integrated visual programming to simplify cost calculation and safety equipment visualization processes.
- Successfully implemented DBMS in PT Adhi Karya's admin dashboard web application to manage safety equipment price data effectively and efficiently.

Honeywell Connected Laboratory UI – Depok, Indonesia   Jun 2023 – Aug 2023

Laboratory assistant / Assistant lecturer

- Developed automated control systems using Programmable Logic Controller (PLC) to enhance laboratory performance efficiency.
- Integrated Internet of Things (IoT) in industrial equipment maintenance processes to monitor equipment health in real-time.
- Successfully implemented a web-based system integrated with IoT for visual industrial equipment maintenance.
- Managed and configured Linux-based systems to support laboratory operations.

Education Level

Asia e University (AeU), School of Science & Technology – Selangor, Malaysia   Sep 2021 – Sep 2025 (Expected)

Bachelor Degree in Information Communication and technology

- Developed object-oriented programming skills in Java and C++, focusing on software design and development.
- Completed academic projects, including an IoT-based final project integrated with a mobile web app.

University of Indonesia, CEP-CCIT Faculty of Engineering – Depok, Indonesia   Sep 2021 – Sep 2023

Associate Degree in Information Technology – Internet Based System Automation: CGPA: 3.83 / 4.00

- Acquired experience in Internet of Things (IoT) technology, including sensor networks, embedded systems, and cloud computing.
- Configured and designed networking devices, including routers and switches using Cisco Packet Tracer.

- Learned Android application development using Java and Kotlin in Android Studio.
- Developed websites integrated with Database Management Systems (DBMS) using frameworks like Laravel and CodeIgniter.

Achievement:

- Best Graduate in TI – Internet-based System Automation, 2024.

Professional Experience

Research Club Mentor – Mentari Intercurtural School Jakarta – Jakarta, Indonesia   Sep 2024 – Dec 2024

- Guided students in developing innovative projects in the Internet of Things (IoT) and software engineering fields.
- Provided technical training and foundational concepts in programming and IoT-based application development.
- Supported students in research, design, and implementation of technology-based projects.
- Directed students in presenting their projects at school and national-level technology events and competitions.

Assistant Lecturer – Office Staff Training, University of Indonesia – Depok, Indonesia   Jul 2023 – Aug 2023

- Successfully assisted 30 participants from the administrative staff of the University of Indonesia.
- Supported lecturers in helping participants learn Microsoft Office tools, including Word, Excel, and PowerPoint.

Programming Team – Autonomous Unmanned Aerial Vehicle (AUAV) UI – Depok, Indonesia   Jan 2023 – Jan 2024

- Member of the programming team at AUAV, Universitas Indonesia, working on fixed-wing aircraft.
- Successfully implemented AI-based object recognition systems for visual-based applications.

Student Contract – Cisco Networking Academy – Depok, Indonesia   Sep 2022 – Des 2022

- Participated in all training activities at the Cisco Networking Academy, Faculty of Engineering UI.
- Studied IoT Fundamentals: Big Data & Analytics, IoT Security & Connecting Things.

Assistant Lecturer – Badiklat IoT Pusdiklat Tekfunghan Kemhan – Jakarta, Indonesia   Oct 2022 – Nov 2022

- Successfully assisted 43 participants in IoT device training with ESP, Arduino, Microcontrollers, Actuators, Sensors, and various IoT-based applications (Blynk, Thingspeak, Thinger.io).
- Supported lecturers in guiding participants in learning IoT and programming.

Assistant Lecturer – Python training for Unsurya students – Depok, Indonesia   Aug 2022 – Sep 2022

- Successfully assisted 30 participants from Suryadarma University.
- Guided participants in learning Python programming using PyCharm.

Skills

- **Technical skills:** Internet of Things (IoT), Arduino, Virtual machine, Linux, Android, Object Oriented Programming (OOP), Bahasa Pemrograman (Java, Python, C++, Kotlin), Google common product, Corel Draw, Vegas, Cisco Packet Tracer.
- **Soft skills:** Teamwork collaboration, Problem solving, Time management and organization, Adaptability and flexibility, Leadership and management and Active listening.
- **Language:** Bahasa Indonesia (native), Bahasa Inggris (fluent).