

Muhammad Bintang Panji Kusuma

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Education

Universitas Syiah Kuala

Bachelor's Degree (Undergraduate), Computer Engineering

2023 – Present

Technical Skills

- Homelab management (containerized services, Docker, automation)
- Web development using React.js and Node.js
- Networking fundamentals (routing, IP management, server configuration)
- Linux system administration (Ubuntu, Arch, Debian-based distros)
- IoT integration and sensor-based systems
- AI-based monitoring and data analytics (conceptual implementation)

Soft Skills

- Problem-solving and analytical thinking
- Independent learning and adaptability
- Team collaboration and communication
- Strong curiosity in emerging technologies

Projects

TrinityFlow

Water filtration system using Moringa aloe vera integrated with IoT sensors and AI maintenance prediction.

Tech Stack: ESP32, IoT sensors, Python (AI prediction), Cloud monitoring.

Safarri

Autonomous sound recording system powered by solar energy for wildlife biodiversity monitoring.

Tech Stack: Raspberry Pi, Solar panels, AI audio analysis (Python + TensorFlow).

Certifications

- Junior Network Administrator (JNA)
- APIE Camp (Japan)
- APIE Advanced Camp (Japan)

Languages

Indonesian – Native

English – Intermediate (technical reading proficiency)

Profile Summary

Highly motivated undergraduate in Computer Engineering passionate about building efficient systems that connect hardware, networks, and intelligent software. Experienced with Linux-based environments, homelab management, and IoT projects combining AI monitoring with real-world applications. Always eager to learn and collaborate on innovative tech solutions.