

SEPTIAN GHUSLAL NUR NA'IM

SOFTWARE ENGINEER

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I am a Diploma III student majoring in Information Technology at Brawijaya University with a strong passion for software engineering. I thrive in collaborative environments that encourage diverse perspectives and innovation. Throughout my academic journey, I have actively engaged in various training programs and real-world projects to deepen my technical skills. My areas of interest include backend development, Internet of Things (IoT), machine learning—especially speech-to-text systems—and mobile application development. I am now seeking opportunities to build a professional career in software development where I can contribute, grow, and tackle meaningful challenges.

EDUCATION

Associate Degree of Information Technology

Aug 2022 - Jul 2025

Faculty of Vocational Studies, Universitas Brawijaya

- Relevant coursework: Software Engineering, IoT, Mobile Development, Data Structures & Algorithms, Database Management, and Machine Learning.
- Actively involved in hands-on projects related to backend development, IoT systems, mobile applications, and cloud integration.

PROFESSIONAL EXPERIENCE

Assistant Lecturer for Internet of Things Course – Universitas Brawijaya

Feb 2025 – Present

- Assisted the lecturer in teaching IoT-related topics, including sensor introduction, wireless communication, and hardware programming.
- Guided students in practical projects, helping them understand the real-world application of IoT technologies.
- Prepared learning materials and presentations, and conducted Q&A sessions and task reviews to deepen students' understanding of IoT concepts.
- Coordinated class discussions on advanced topics such as MQTT, device communication, and programming with platforms like Arduino and ESP32.

Android Developer – Bangkit Academy 2024 (by Google, Tokopedia, Gojek, & Traveloka)

Feb 2024 – Jul 2024

- Developed a mobile application for a capstone project focused on East Java tourism using Jetpack Compose, ensuring responsive and modern UI/UX.
- Collaborated with cross-functional teams (mobile, ML, and cloud engineers) to build integrated features.
- Implemented real-time data sync and app security using Google Cloud Platform (Firebase Authentication, Firestore, Cloud Storage).
- Participated in the full agile development cycle: sprint planning, daily stand-ups, and code reviews.
- Integrated machine learning models for user personalization, enhancing performance and security.
- Focused on app optimization, testing, and delivery to meet project milestones and user needs.

Laboratory Assistant – Internet of Things & Human-Centered Design

Feb 2024 – Jul 2024

- Provided technical support for IoT systems and maintained device functionality during experiments.
- Conducted and analyzed usability testing to inform improvements in human-centered design.
- Designed, built, and tested IoT prototypes using sensors and microcontrollers (e.g., Arduino, ESP32).
- Performed data collection and analysis from IoT devices and user interaction logs.
- Collaborated with researchers on documentation, prototyping, and mentorship of junior students.
- Gained practical experience at the intersection of technology, user experience (UX), and IoT systems.
- Skills: IoT Development, Human-Centered Design, Usability Testing, Microcontrollers, Data Analysis, Resear

Freelance Video Editor – BP3M FISIP Universitas Brawijaya

Aug 2024 – Sep 2024

- Responsible for capturing and producing a profile video of Desa Gubuk Klakah for a community service project.
- Worked closely with the project team to ensure the video effectively highlighted key moments, local culture, and community involvement.
- Edited and curated visual content for promotional purposes, honing skills in visual communication and content creation.
- Contributed to a social impact initiative by delivering high-quality video content that showcased the project's significance in empowering the local community.

IoT Engineer – PT Connecting Dots Nusa

Sep 2024 – Jan 2025

- Collaborated with the team to design and develop Internet of Things (IoT) solutions using LoRa and MQTT for remote monitoring applications.
- Developed Arduino and ESP32 based devices to connect sensors to a LoRa network, ensuring real-time data transmission to the server via MQTT.
- Integrated with cloud platforms and visualization applications to monitor sensor data live and present relevant analytics.
- Optimized IoT system performance and stability to ensure efficient and secure data transmission.
- Involved in hardware and software testing and troubleshooting, resolving technical issues in data communication using LoRa and MQTT.

ORGANIZATIONAL EXPERIENCE

President – Provoks Community (Programmer Vokasi)

July 2024 – Jan 2025

- Led a vibrant community of vocational students passionate about programming and technology. Oversaw the strategic direction of the organization and facilitated various events, including workshops and competitions.
- Worked closely with industry experts and educational institutions to create a dynamic learning environment. Provided opportunities for members to develop technical skills in backend, frontend, mobile development, and IoT.
- Coordinated national competitions, resulting in successful project executions that challenged members to solve real-world problems.
- Cultivated a collaborative and innovative culture where members enhanced their programming, leadership, and technical abilities, preparing them for successful careers in the tech industry.

ADDITIONAL INFORMATION

- **Languages:** English, Indonesian.
- **Certifications:** IoT Engineer (BNSP) License, Junior Web Developer (BNSP) License, Mobile Development Bangkit Academy.
- **Awards/Activities:** Certificate of Achievement – Finalist OLIVIA 2024 (Olimpiade Vokasi Indonesia)