

Zulfa Sulthany Almawahib

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PROFILE

Backend Developer and Software Engineer with hands-on experience designing robust APIs, structuring scalable databases, and building cross-platform applications. I specialize in leveraging Node.js, Express.js, TypeScript, Next.js, and PostgreSQL to deliver high-performance solutions in Linux environments. Passionate about applying Clean Architecture principles and integrating advanced tools including machine learning and geospatial data processing. I focus on optimizing workflows and building software that scales.

WORKING EXPERIENCE

PT. Summit Global Teknologi, Tangerang — Aug 2025 – Present

Junior Backend Engineer (Full-time)

- Develop and maintain scalable backend architectures utilizing Node.js, Express.js, and TypeScript to support business-critical web applications
- Design and optimize relational databases using PostgreSQL, ensuring efficient data retrieval and secure transaction processing.
- Deploy and manage backend services within a Linux environment, collaborating closely with frontend teams utilizing Next.js.

Orchid Cluster, Banjaran — Mar 2024 – Apr 2024

Software Engineer (Part-time)

- Developed RESTful APIs using Laravel for a WiFi subscription mobile application to streamline user connectivity.
- Integrated MikroTik WiFi systems with REST APIs to manage network access dynamically.
- Implemented secure user authentication (login, signup, logout) using PostgreSQL.
- Engineered a phone number verification system utilizing the WhatsApp API to accurately update user verification statuses.

PT. Ekosistem Geospasial Mandiri, Jakarta — Sep 2023 – Jan 2024

Mobile App Flutter (Internship)

- Engineered a comprehensive mobile application from the ground up using Flutter for the frontend and Laravel for the backend API to visualize drone-based mapping data.
- Designed and implemented RESTful API transactions to enable seamless aerial data uploads and direct in-app spatial visualization.
- Processed and managed geospatial data utilizing QGIS, contributing to advanced aerial mapping solutions.

PT. Kotak Pintar, Bandung — Jun 2023 – Aug 2023

Mobile App Flutter (Internship)

- Developed scalable mobile applications using Flutter, strictly adhering to Clean Architecture principles
- Implemented rigorous software design patterns and separation of concerns to deliver robust, easily maintainable codebases.

EDUCATION

Institut Teknologi Nasional Bandung, Bandung — Sep 2020 – Feb 2025

Bachelor of Informatics | GPA 3.34 of 4.00

SMA Negeri 1 Ciparay, Bandung Juli 2017 – Mei 2020

OTHER EXPERIENCES

Institut Teknologi Nasional Bandung, Bandung Feb 2024 – Jul 2024

Machine Learning Laboratory Assistant

- Facilitated hands-on Python-based machine learning sessions, guiding undergraduate students through data processing, model building, and evaluation.
- Provided technical troubleshooting and implemented predictive solutions using Pandas and Scikit-learn to reinforce practical data science workflows.

Institut Teknologi Nasional Bandung, Bandung Feb 2024 – Jul 2024

Robotics Laboratory Assistant

- Instructed students on Arduino Uno systems, supporting the design, coding, and simulation of robotics projects for the Kontes Robot Indonesia 2024.
- Mentored student teams on system troubleshooting and simplified complex robotics concepts into practical learning experiences.

LANGUAGES AND SKILLS

- **Languages**: Bahasa Indonesia (Native), English (Professional Working Proficiency).
- **Programming Languages**: TypeScript, JavaScript, Python, Dart, PHP, C++ (Arduino).
- **Databases & Infrastructure**: PostgreSQL, Linux
- **Tools & Technologies**: Git, GitHub, QGIS
- **Core Competencies**: API Design & Integration, Clean Architecture, Geospatial Data Processing, Cross Platform Mobile Development, Server Side Programming

PUBLICATIONS

- **Geospatial Mapping Support Application:** Authored and published "PENGEMBANGAN APLIKASI PENDUKUNG PEMETAAN GEOSPASIAL BERBASIS FOTOGRAMETRI UDARA DI DESA PASIRMULYA" in *Jurnal Abdimas Ilmiah Citra Bakti* (Nov 27, 2024), focusing on UAV drone data processing.