- S E P T I A P E R M A N A -

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Experienced software developer with over 3 years in the technology industry, specializing in backend development using Node.js, PHP, and Go. Proven track record in developing innovative and reliable software solutions, including event-driven microservices architecture with Kafka. Strong analytical skills and adaptability in dynamic work environments. Eager to continuously improve, learn, and adopt new technologies aligned with industry trends.

PROFESSIONAL EXPERIENCE

PT Telkom Indonesia, Indonesia • Backend Developer 06/2020 - Present

- Developed an application to track, trace, and monitor vehicles distributing COVID-19 vaccines in Indonesia. The system monitors more than 300 vehicles and 100 chillers across Indonesia. Processing real-time data every 15 seconds to monitor and ensure the smooth distribution of the COVID-19 vaccine. (NodeJS, PHP, PostgreSQL, Kafka, Cloud Computing, MQTT, Teltonika GPS, and TCP Server)
- Add new features to Indicar platform to improve vehicle monitoring capabilities. Adding new device integrations, quadrupling business profits. (Teltonika GPS, PHP, PostgreSQL).
- Create Smart City applications to integrate various urban services. Increase 75% efficiency of work processes and administration related to smart city needs. (NodeJS, Express, PostgreSQL, Cloud Computing)
- Integrate and extend application data into a centralized monitoring application for resource management across platforms and applications. Enable comprehensive monitoring of CPU, RAM, storage, notifications, alarms, and financial data, which will improve overall system performance and operational awareness. In addition, increase monitoring time efficiency by up to 80%, allowing teams to respond to emerging issues faster. (NodeJS, Prisma ORM, Datadog, PostgreSQL)
- Build an integrated fleet management system to streamline vehicle operations and maintenance. (NodeJS, Restify, PostgreSQL).
- Enhanced and scale the Indicar platform to handling from 1,500 vehicles to over 10,000 vehicles. (Go, Kafka, PostgreSQL).

PROJECTS

Inventory Management System for the Indonesian Department of Transportation • Fullstack Developer

- The system leverages technologies such as Laravel, MySQL, Blade Template, HTML5, CSS3, Bootstrap, and JQuery to enhance data accuracy and operational efficiency.
- This project aims to develop a web-based inventory management system using the Laravel framework to manage assets and inventory efficiently. Before this system, the recording was done manually or using hardcopy. After using this system, the efficiency of the work process has increased by 80%. Its main features include asset and inventory tracking, user authentication, automatic reporting, and maintenance notifications.

Horn Decibel Measurement System for Hino Trucks • Fullstack Developer

- The system utilizes Laravel for backend development, IoT sensors for decibel measurement, MySQL for data storage, and frontend technologies like HTML5, CSS3, and JavaScript for the user interface.
- The project aims to develop a system to measure the decibel level of a Hino truck horn using Laravel and IoT technology. Its main features include real-time decibel level monitoring, data logging, user authentication, and reporting. This system optimizes the existing manual workflow.

Plastic Waste Recycling Management, Control, and Monitoring System using IoT • Fullstack Developer

- The system utilizes IoT sensors for real-time data collection and monitoring, Node.js with Express for backend development, MQTT for communication between IoT devices, and MongoDB for data storage.
- The project aims to develop a comprehensive system for managing, controlling, and monitoring plastic waste recycling using IoT technology. Key features include real-time tracking of recycling processes, automated data collection, waste categorization, user authentication, and detailed reporting on recycling metrics.

SKILLS

Programming Languages: Javascript, PHP, Go, SQL, Java

Databases: PostgreSQL, MySQL

Frameworks & Technologies: NodeJs, Express, Restify, Fiber, Laravel, MQTT, Apache Kafka, Docker, Cloud Computing, Apache Jmeter, GCP.

Soft Skills: Communication, Time Management, Team Collaboration, Problem Solving

EDUCATION

Bachelor's degree • Computer Science
Bina Nusantara, Jakarta (2022 - 2024)

Associate degree • Electrical Engineering
Politeknik Negeri Bandung, Bandung (2016 - 2019)

CERTIFICATIONS & TRAINING

SQL and PostgreSQL: The Complete Developer's Guide • Udemy
https://www.udemy.com/certificate/UC-37f3716f-6b2c-4db8-829b-ed626151a494/

ACHIEVEMENT

- Awarded 4th Place (Favorite) in the National IoT Challenge 2016 for the DYRECS (Dynamic Residential Control System) product, which enhances home efficiency and security through Internet of Things technology. (https://inet.detik.com/cyberlife/d-3263437/anak-cimahi-bikin-rumah-pintar)