

David Setyawan

Backend Engineer – Business & Integration Systems

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Profile

Backend Engineer (4+ yrs) specializing in high-scale integrations & real-time data. Saved USD 23k/year via workflow automation. Expert in multi-schema DBs for national fintech & managing 100+ APIs. Skilled in PHP (Laravel), Node.js, and MQTT. Focused on building scalable, audit-ready solutions for international enterprise environments. Open to relocation.

Skills

- PHP (Laravel, Codeigniter, Yii)
 - JavaScript (Node.js)
 - RESTful API Development
 - Backend System Architecture
 - Web Server (Apache, Nginx)
 - GIT
 - Technical Leadership
 - Stakeholder Collaboration
- System Integration APIs & Workflows (n8n, Pentaho, Node-RED)
 - PostgreSQL
 - Linux Operating System
 - CI/CD
 - System Design & Documentation
 - Google Cloud Platform

Professional Experience

- Backend Engineer – Business & Integration Systems**

PT Mandala Karya Prima (Full Time)

Jan 2025 - Present
Jakarta, Indonesia, On-Site

 - Managed a team of 6 subordinates, including task distribution, technical mentorship, and career development to accelerate project delivery
 - Architected a centralized SSO solution for 9+ internal applications using Laravel Passport, ensuring OAuth2 compliance and streamlining user access management
 - Engineered real-time ETL pipelines using Node-RED and Pentaho to consolidate fragmented operational data into a unified Data Warehouse for management reporting
 - Delivered USD 23,000 in annual cost savings by building an automated data-capture system; transformed manual tracking into real-time analytical dashboards that enabled the transition to online training programs
 - Oversees project lifecycle & budget, from feasibility studies to Functional Specification Documents (FSD), ensuring alignment with business objectives
- Backend Engineer / Technical Lead**

PT Mandala Karya Prima (Full Time)

Jul 2023 - Dec 2024
Jakarta, Indonesia, On-Site

 - Led backend development and technical execution for core internal systems, supporting operational workflows used by thousands of daily users in mining environments
 - Developed and maintained 100+ REST APIs to support mission-critical mining workflows and third-party vendor integrations
 - Stabilized core backend services, reducing manual operational handling by 50% and improving system response times
 - Implemented server security mechanisms and optimized database queries to ensure 99.9% system uptime for production environments

Backend Engineer

Jul 2022 - Jul 2023

PT Sinergi Prakarsa Utama (Contract)

Tangerang, Indonesia, On-Site

- Developed a national-scale Loan Management System supporting major financial institutions including CIMB Niaga and multiple Rural Banks (BPR), ensuring seamless operations across multiple regions
- Architected a multi-schema PostgreSQL database with 100+ tables, managing complex domains for loans, deposits, and financial transactions in a high-traffic production environment
- Optimized transactional performance by offloading critical business logic to PostgreSQL stored procedures, significantly reducing backend processing overhead and API response times
- Engineered accurate financial modules for interest calculation (amortization, flat, floating) to facilitate precise loan installment simulations for users
- Led and mentored a team of 5 junior developers, conducting bi-weekly technical sessions to ensure high-quality code delivery and knowledge transfer

Backend Engineer

Mar 2021 - Jul 2022

PT Artha Puncak Semerta Indonesia (Full Time)

Jakarta, Indonesia, On-Site

- Implemented high-throughput data processing using MQTT to stream per-second telemetry from 100+ mining units, enabling a real-time Fleet Management System (FMS) for live monitoring
- Architected backend services to ingest and persist high-frequency IoT data streams, ensuring 100% visibility across multiple remote mining locations
- Reduced backend server overhead by offloading complex transactional and aggregation logic to PostgreSQL stored procedures, significantly optimizing system responsiveness
- Managed on-premise Ubuntu server infrastructure, handling production deployments, service configurations, and ensuring environment stability

Software Engineer

Mar 2020 - Mar 2021

PT Artha Puncak Semerta Indonesia (Intern)

Jakarta, Indonesia, On-Site

- Assisted in developing backend features and database components for production-level internal operational systems
- Supported system testing and debugging, contributing to improved stability and smoother team handovers

Education

Universitas Bina Nusantara

2018 - 2025

Bachelor of Computer Science - GPA 3.14 / 4.00

Jakarta, Indonesia, On-Site

Language

Indonesian - Native | English – Full Professional Proficiency

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