Deddy Setiawan

Full Stack Developer

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SUMMARY

Software Engineer with 5+ years of experience leading teams and building end-to-end solutions across frontend, backend, and cloud infrastructure (AWS, Docker, CI/CD). Skilled in Git workflows, Unit Testing, Jira, and AI/ML development. Seeking a long-term opportunity to fully dedicate my skills, grow with a collaborative team, and make a lasting impact.

EXPERIENCE

Full Stack Developer
WRI Indonesia ↗
01/2024 - Present

- Led a 2-person team to plan timelines, select technologies, develop, and deploy interactive Nature-based Solutions (NbS) tools using Nuxt.js, FastAPI, OpenLayers, and PostGIS; deployed via Nginx on GCP EC2, resulting in a ~40% increase in user engagement through dynamic map layers with real-time geospatial analysis.
- Built and deployed a multilingual, mobile-first website for the SCeNe Coalition as the sole developer using Laravel and Statamic CMS, delivering a Lighthouse score of 95+ and increasing access across 4 Southeast Asian countries with WCAG 2-compliant and responsive design.
- Designed and deployed a custom multi-agent AI system backed by a fine-tuned internal LLM trained on project documents, APIs, and data knowledge; enabled intelligent user support and reduced manual content retrieval time by ~50%.
- Engineered a robust data integration pipeline across 5+ active projects, automating ingestion of SHP, GeoJSON, Excel, CSV, Word, and PDF files from Google Drive to PostGIS, with outputs served via APIs and interactive charts for research and reporting.
- Implemented a CI/CD pipeline using GitHub Actions, with minimum 80% unit test coverage and end-to-end testing via Cypress and Postman, which reduced update-related bugs by ~90%.
- Deployed and maintained backend and frontend systems on Google Cloud Platform, ensuring 100% uptime with load balancing, autoscaling, and proactive monitoring across all major services.

Software Engineer
PT. Bussan Auto Finance ↗
11/2021 - 11/2023

- Led migration of ~15 legacy applications—including internal tools, customer-facing portals, and reporting systems—from CodeIgniter 2 and SOAP to a modern stack using React 18 and Golang (GIN framework), reducing maintenance overhead by ~40% and improving API response times by ~30%. Also developed 3 new applications from scratch using the same stack to expand business capabilities.
- Built a mobile-first, reusable UI framework with Storybook for design documentation and component reuse, and used Postman to maintain up-to-date, collaborative API documentation—boosting front-end and back-end development speed by ~35%.
- Integrated Cypress for end-to-end automation testing, cutting manual QA effort by ~60% and significantly increasing release reliability across environments.
- Managed CI/CD pipelines with Docker containers, Kubernetes orchestration, and Nginx on Azure Cloud, reducing deployment effort by over 50% while ensuring scalability, security, and uptime.
- Developed and launched BAF PraDana, a digital loan application feature within the BAF Mobile App, increasing online loan submissions by ~30%. Integrated secure identity verification (Privy), document storage (AWS S3), and back-end workflows powered by PostgreSQL and Golang APIs.
- Implemented cookie-based authentication and enforced secure development practices, resulting in zero critical security incidents. Led comprehensive testing strategies using Black Box, White Box, and Katalon automation, achieving a ~45% reduction in CI/CD pipeline bugs and improved application stability.

Full Stack Developer 06/2021 - 08/2021

Slaash | Putih Dental ↗

- Developed and maintained a secure, mobile-first CMS and backend system for a dental services platform used by 2+ dental clinics, enabling seamless multi-store operations.
- Collaborated in a 3-person agile team, delivering MVP within 3 months and supporting production-ready features used by 100+ end users.
- Developed and deployed a secure, full-stack dental clinic platform using NestJS, React, and PostgreSQL, supporting role-based dashboards for over 200 active users, with AWS EC2 hosting, Docker-based CI/CD pipelines, SSL configuration, and 100% uptime across production releases.
- Engineered an automated appointment scheduler using Node Cron, managing 100+ bookings per month with real-time availability updates and push notifications via Firebase Cloud Messaging, improving booking efficiency and reducing no-shows by 30%.
- Integrated Durian Pay for secure card payments with automated invoice generation and status tracking; optimized PostgreSQL with indexing and daily backups for high performance, and configured AWS S3 to securely store user, dentist, and clinic images. Fully documented all RESTful APIs in Postman for seamless team collaboration and onboarding.

Full Stack Developer 01/2021 - 05/2021

Upwork Inc. ↗

- Redesigned and rebuilt the Smarter Vending Company website using React 18, delivering a 100% improvement in page load speed and reducing maintenance time by 40% through component modularization and clean architecture.
- Increased automated test coverage for the Money Pigeon React Native app from 10% to 65%, resulting in a 75% decrease in post-release bugs and improved deployment confidence through Jest and React Native Testing Library.
- Implemented a Next.js monorepo architecture, enabling management of 3+ related projects within a unified codebase. Integrated Docker, CI/CD pipelines, and testing workflows to cut deployment times by 50% and improve developer onboarding.
- Developed a GIS-powered routing system using Leaflet.js, providing real-time navigation capabilities with custom start/end points. Improved geospatial data accuracy by 30%, enhancing usability for location-based services.

EDUCATION

Urban and Regional Planning 08/2017 - 11/2021

Institut Teknologi Sepuluh Nopember - Bachelor's degree

- Graduated with 3.41 of 4.00 GPA score.
- Finalist PIMNAS 2020: Student Creativity Program in Social Humanities Research (PKM-PSH)
- Finalist and Speaker at "Housing Talk: in Jakarta 2018 (National Scientific Workshop)
- ArcGIS Trainer for public and ITS Students

CERTIFICATES

Machine Learning and AI for Beginner ↗ 07/2024 - Present

DQLabs

- In the online live class sessions of the bootcamp, you will learn the basics of Machine Learning & AI, including their definitions, types, and real-life applications. The program also covers building models, fine-tuning, project development, and portfolio mentoring to help you apply your skills in practical scenarios.

Full Stack Software Engineer ↗ 12/2021 - Present

Enigma Camp

- Completed Java 8 & Spring Boot Certification with a score of 89.98/100, covering Core Java, SQL Database (PostgreSQL), Unit Testing (JUnit5), API Documentation (Postman), JWT Authentication, and Spring Boot application development.
- Achieved Angular 12 & TypeScript Certification with a score of 85.45/100, focusing on JavaScript & TypeScript fundamentals, API integration with Observables, Docker-based deployment, Unit Testing with Karma, and UI styling with Bootstrap

SKILLS

React	Expert	Swift	Basic
NextJS	Expert	JUnit, Karma, Jest	Expert
Vue	Expert	JMeter, Postman Runner	Expert
NuxtJS	Expert	Cypress	Expert
NestJS	Expert	QGIS, OpenLayers, Leaflet	Advanced
ExpressJS	Expert	AI & LLM	Advanced
Golang GIN	Expert	Docker	Expert
Django	Advanced	CI/CD, GitHub, GitLab	Expert
FastAPI	Expert	AWS EC2 & S3	Advanced
Laravel	Expert	GCP EC2 & S3	Advanced
CodeIgniter	Advanced	PostgreSQL	Advanced
Java Spring Boot	Intermediate	MongoDB	Intermediate
AngularJS	Intermediate	MySQL	Advanced
React Native	Expert	Jira	Expert

LANGUAGES

English	Fluent	Indonesian	Native