Wahyu Andika Putra

Software Engineer | Frontend, Full-Stack, Mobile, and Web3 Development

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PROFESSIONAL SUMMARY

Software engineering student and founder of andikadev.com, a web and application development service with 30+ clients. Experienced in designing and developing web and mobile applications across frontend, backend, database, and API layers. Focused on scalable, maintainable, production-oriented software and secure application architecture. Seeking a software development internship (PKL), with a focus on frontend development.

EXPERIENCE

Founder, andikadev.com, Web and Application Development Services

- Provide web and application development services; served 30+ clients.

PROJECTS

Retail POS and Inventory System, Building Materials Store (In Development)

Technologies: Flutter, Dart, SQLite, REST API, Firebase Cloud Messaging

- Leading the design and development of a three-part retail platform for a building materials store: an offline-first point-of-sale app for tablet and desktop, a multi-warehouse web back-office, and Flutter mobile apps for owner and field sales.
- Architecting an offline-first transaction engine with local SQLite storage and automatic background synchronization, combined with database row locking to prevent race conditions in concurrent cashier transactions.
- Specifying role-based access control and a full audit trail across Owner, Admin, Cashier, and Frontliner roles, including PIN-based owner approval of discounts and over-limit receivables from mobile.
- Designing multi-unit decimal inventory handling, average-cost valuation, receivables limit control, and automated financial reports with PDF and Excel export.

Vortex Integrated Maritime, Crew and Seafarer Document Management Platform

Technologies: Google Apps Script, JavaScript, Google Sheets and Drive, Progressive Web App, Capacitor, Gemini and Claude APIs

- Designed and built a multi-role platform (Admin, Manager, Crew) for seafarer document management, covering a crew directory, document vault, and automated CV generation in DOCX format.
- Developed an AI-assisted document scanning pipeline that extracts and validates data from maritime certificates, with multi-provider model failover, automatic merging of multi-page documents, and crew matching for batches of mixed documents.
- Implemented security controls including role-based access, audit logging, a strict Content Security Policy, file integrity hashing, rate limiting, and explicit user consent for AI processing.
- Delivered a responsive PWA and packaged it for Android with Capacitor, backed by an automated test suite of 180 tests.

Akademi Crypto, Learning Management System

Technologies: Express.js, Node.js, MongoDB, REST API

- Designed backend architecture using Express.js and Node.js for a learning management system.
- Integrated MongoDB for structured data persistence and content management.
- Built REST API infrastructure to support course and learning workflows.
- Structured the backend around a modular architecture to support scalable feature development.

Fake GPS, Mobile Location Application

Technologies: Flutter, Dart

- Developed a Flutter and Dart mobile application for simulating device location.
- Designed a responsive, clean user interface for location configuration workflows.
- Structured the application to prioritize interface clarity and reliability.

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, Python, Dart, Solidity, SQL
Frontend: Next.js, React, Vite, Tailwind CSS, HTML, CSS, Progressive Web App (PWA)
Backend and APIs: Node.js, Express.js, Fastify, REST API, Google Apps Script
Databases: MongoDB, PostgreSQL, MySQL, SQLite, Supabase, Drizzle ORM
Mobile: Flutter, Dart, Capacitor, Firebase Cloud Messaging
AI Integration: Gemini API, Claude API
Blockchain and Web3: Solidity, EVM, Smart Contracts, Web3 Architecture, DeFi Fundamentals
Cybersecurity: Secure Coding, Web Security, Authentication and Authorization, Threat Modeling, Vulnerability Assessment
Tools and Infrastructure: Git, GitHub, Linux, Docker, CI/CD, Cloud Deployment

EDUCATION

SMK Negeri 1 Sukoharjo, Wonosobo, Central Java, Indonesia
Rekayasa Perangkat Lunak (Software Engineering), 2025 - 2027 (in progress)

CERTIFICATIONS AND ACHIEVEMENTS

- 3rd Place, IT Software Solutions for Business category, Lomba Kompetensi Siswa (LKS) SMK Kabupaten Wonosobo, organized by MKKS SMK Kabupaten Wonosobo. Achieved in two consecutive editions: 2025 (5-8 February 2025) and 2026 (3-5 February 2026).
- Participant, Cyber Security Competition (Piala Gubernur Jawa Tengah), SMA/SMK and equivalent level, Central Java Province, organized by Dinas Pendidikan dan Kebudayaan Provinsi Jawa Tengah, 13-20 December 2025.