

Nabil Afkar

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PROFESSIONAL SUMMARY

Full-Stack Developer with experience in building scalable web applications, real-time systems, and cloud-integrated solutions. Skilled in system architecture, backend development, and real-time data synchronization using modern technologies. Experienced in developing production-ready systems including drone-based logistics platforms, financial dashboards, and automation tools. Strong focus on performance optimization, system reliability, and clean architecture.

EXPERIENCE

Full Stack Web Developer

Freelance / Project-Based

January 2022 - Present

- Developed scalable full-stack applications using Laravel, Next.js, and PostgreSQL.
- Designed and implemented real-time systems using Firebase and WebSocket integration.
- Built operational dashboards for monitoring, analytics, and workflow automation.
- Optimized backend processes and improved system performance through efficient data handling.
- Delivered end-to-end systems from architecture design to deployment.

Research Assistant - Smart Water Meter Dashboard System (KEDAIREKA Program)

Telkom University x Indonesian Government Matching Fund

March 2024 - December 2024

- Selected as part of a national research and innovation program (KEDAIREKA).
- Contributed as a full-stack developer in building a prepaid smart water meter dashboard system.
- Developed a multi-role dashboard system (Admin, Staff, Customer) for operational and customer service workflows.
- Implemented core features including installation request management, complaint handling, and prepaid billing and payment system.
- Integrated system workflows aligned with real-world public water utility operations.
- Delivered a scalable web-based solution to support digital transformation in utility services.

PROJECTS

Drone-Based Logistics System (IEEE Published)

- Developed a semi-autonomous drone delivery system integrating Mission Planner, MAVProxy, and Firebase.
- Implemented real-time telemetry streaming (GPS, altitude, drone status).
- Designed geofencing-based delivery validation ($\leq 3m$ radius, $\leq 2m$ altitude).
- Built cloud-based command system for real-time drone control.
- Created monitoring dashboard for tracking delivery operations.
- Reduced manual intervention through semi-autonomous delivery workflow.

Smart Trading Journal System

- Built trading system with risk-based capital management.
- Implemented 50/30/20 capital allocation strategy.
- Developed automated risk calculation and compounding system.
- Built analytics dashboard and group trade tracking features.

EDUCATION

Bachelor of Information Systems

Telkom University - Indonesia • 2021 - 2025

SKILLS

Programming: TypeScript, JavaScript, Python, VB.NET

Frameworks: Next.js, Node.js, Laravel

Database: PostgreSQL, MySQL

Technologies: Firebase, Supabase, WebSocket, Real-Time Systems

System Architecture: Scalable backend design, Database schema design, API design & integration, Event-driven systems, Automation workflows.

CERTIFICATE

Certified Web Developer – BNSP (2024)

- Nationally recognized certification in web development competency.
- Covers programming, application development, and system implementation.
- Validates professional readiness in building production-grade systems.

Research Assistant – KEDAIREKA Program (2024)

- Participated in a national research program focused on digital transformation in water utility services.
- Contributed to development of smart water meter system and dashboard platform.
- Selected as part of university industry collaborative research initiative.

RESEARCH & PUBLICATION

IEEE Conference Publication (2025)

Enhancing Mission Planner with Real-Time Cloud Integration for Semi-Autonomous Drone-Based Logistics

- Developed real-time telemetry integration system.
- Designed semi-autonomous drone workflow.
- Validated system performance through testing.