

RISKI AFENDI

Software Engineer · Full-Stack Development ·
System Analysis · AI Engineering

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Open to remote opportunities from Indonesia

PROFESSIONAL SUMMARY

Software Engineer and D4 Software Engineering graduate with internship and applied project experience in full-stack development, system analysis, and resilient data workflows. Contributed to a Flutter-edge-Laravel ferry operations system and built projects spanning a deployed web application, asynchronous Python, and local knowledge infrastructure. Developing a focus on AI Engineering through AI-assisted workflows and MCP-based retrieval, with responsibility for integration, testing, validation, and final engineering decisions.

TECHNICAL SKILLS

Systems Analysis & Architecture: Requirements and business analysis, mobile-edge-cloud integration, LAN-first/cloud-fallback workflows, data synchronization.

Web Development: React, Next.js, TypeScript, JavaScript, Tailwind CSS, HTML, CSS, PHP Native, Laravel.

Mobile & Edge: Flutter, Dart, Local Edge HMI; BLoC and Drift/SQLite in project-stack context.

Backend, Data & Integration: Node.js, MySQL/MariaDB, PostgreSQL, Firebase Firestore, SQLite FTS5, REST APIs, Laravel Reverb/WebSocket.

AI & Automation: MCP-based retrieval and information-discovery automation; AI-assisted engineering with ChatGPT/Codex, Claude, and Cursor for research, implementation, review, debugging, testing, and documentation, with final engineering decisions retained.

Quality & Tools: Software testing and validation, Git/GitHub, GitHub Actions, Google Lighthouse audits.

Supporting Skills: UML, Flowchart, ERD; Python for research prototypes.

Work Practices: Analytical problem solving, critical thinking, time management.

EXPERIENCE

Software Engineer Intern | Bengkalis Regency Transportation Agency

Bengkalis, Indonesia | Mar 2026 – Jun 2026

- Contributed to engineering and system analysis for RoRo Alert, a three-pillar ferry operations monitoring system spanning a Flutter field application, a local PHP/JavaScript edge HMI, and a Laravel 12/MySQL cloud application.
- Supported LAN-first, cloud-fallback workflows using UUID v4 retry safety, REST APIs, Laravel Reverb/WebSocket signaling, synchronization/reconciliation, and selected-flow validation under intermittent connectivity.
- Worked with selected-flow validation and technical documentation covering data authority, fallback, catch-up, and recovery under intermittent connectivity.

Operations & Digital Administration Staff | Nura Cell (PPOB Payment Services)

Oct 2025 – Feb 2026

- Redesigned a digital inventory workflow that replaced manual bookkeeping and improved data-recap efficiency by approximately 50%.
- Handled 50+ daily transactions across multiple service platforms and troubleshot server and network issues supporting day-to-day customer operations.

SELECTED PROJECTS

Remote Works | Deployed Personal-Use Job Application Tracker

Technologies: Next.js, React, TypeScript, Tailwind CSS, Firebase Firestore, GitHub Actions

- Built, deployed, and actively used a personal job-application management application with responsive workflows and managed Firebase services.
- Implemented real-time Firestore CRUD, search/filter/sort, status and aging indicators, derived analytics, CSV export, validated JSON intake, and static delivery through GitHub Pages.

AI Trade Crypto - Lighter Bot | Algorithmic Trading Research & Paper-Execution Prototype

Technologies: Python, asynchronous programming, deterministic strategy evaluation, data validation, risk controls

- Developed a modular asynchronous Python prototype for algorithmic research and paper execution, including market-data quality checks, deterministic indicators and scoring, risk/order gates, journaling, reconciliation, and health monitoring.
- Applied walk-forward validation across 71/71 folds and 9 candidates; promoted 0 candidates and retained a NO-GO decision rather than advancing an unsupported strategy.

Second Brain | Local-First Knowledge Infrastructure

Technologies: Node.js, JavaScript, SQLite FTS5, MCP, Markdown/YAML

- Designed local-first knowledge infrastructure that separates governed Markdown records, a rebuildable SQLite FTS5 index, and an MCP access layer for bounded retrieval.
- Implemented project allowlists, provenance, lifecycle, review, supersession, and owner-gated candidate-to-canonical workflows; validated the audited source with 43 automated tests passed and 0 failed in Sep 2026.

EDUCATION

Bengkalis State Polytechnic | Bengkalis, Indonesia

Applied Bachelor (D4) in Software Engineering | 2022 – 2026

GPA: 3.66 / 4.00

CERTIFICATIONS AND CREDENTIALS

Entry-Level Mobile Programmer

Digital Technology Professional Certification Body | Oct 2025

Code Generation and Optimization Using IBM Granite (MDL-566)

IBM SkillsBuild | Oct 2025 | Certificate and digital badge

TRAINING

Junior Mobile Programmer - Vocational School Graduate Academy (VSGA)

BBPSDMP Medan | Sep 2025 - Oct 2025

Introduction to Digital Mindset 1: Shaping Your Future with a Digital Mindset

Center for Digital Literacy Development | Aug 2025