Muhammad Rayhan Fadillah

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Product-minded Software Engineer with 3 years of experience in TypeScript, React, and Flutter, building the logistics platforms behind 1,500+ fleets, plus financial and IoT products. Ships end-to-end across web, mobile, automation, and AI, from architecture and testing to production releases, using AI-augmented, test-guarded workflows.

Work Experience

Seryu Cargo - Software Engineer (Web, Mobile & Automation) Nov 2024 – Present

A trusted logistics partner to major Indonesian e-commerce and expedition companies, managing over 1,500 fleets.

Seryu Integrated Management System (React, TypeScript, Refine, Ant Design)

- Core contributor to the company's internal operations platform (**~135 screens**) spanning sales, trucking and cargo operations, trip cost management, fleet, and vendor management.
- Built vendor quotation negotiation and a KPI-based vendor ranking (SLA, fulfillment, rates, invoicing) with embedded Metabase analytics, **enabling data-driven vendor selection**.
- Led the trip cost management revamp, built a partner payout system from scratch, and delivered a map-based route pricing calculator with toll costs for the sales team.
- Engineered a centralized fleet reporting system with WhatsApp ticket alerts, resulting in a **20% decrease in vehicle downtime**.
- **Cut the main JS bundle by 37%** (2.35 MB to 1.49 MB) and built quality guardrails (**1,700+ unit tests**, Cypress E2E, pre-push checks) to prevent regressions.

Vendor Management System, Vendor Portal (React, TypeScript, Refine, Zustand)

- Architected the vendor-facing portal from scratch, taking logistics vendors from registration through rate publishing and quotations, with **role-based access** (admin, finance, operational).
- Built multi-round price negotiation with a **cross-tab lock that prevents duplicate offers**, client-side quotation PDFs, and signed-URL document security.

Seryu Driver App (Flutter, BLoC)

- Primary maintainer since Apr 2025, shipping **27 Play Store releases** and upgrading the app to Flutter 3.41 and Android 16 (targetSdk 36).
- Built an attendance system with **on-device ML Kit face detection**, geotagged photos, and offline-first sync.
- Optimized the driver map with client-side route-progress rendering and Mapbox request caching, **reducing paid map API calls**.
- Resolved critical data-loss bugs, ensuring **100% reliability in the collection of trip documents and live checkpoint data** from the field.

Booking Sync Automation (TypeScript, Puppeteer)

- Built a browser automation service that syncs partner line-haul bookings into Google Sheets every minute, **replacing manual copy-paste for the ops team**, with session reuse, batched retries, and data validation.

Team & Process Improvement

- **Initiated a monthly tech talk** series and wrote developer guides that speed up onboarding.
- **Set up AI-assisted development** (agent guidelines, lint and test ratchets) so AI-generated code meets team quality standards.

UENA - Software Engineer (Full-Stack) May 2024 – Aug 2024

An F&B tech startup focused on solving daily food needs in Indonesia.

- Built a Flutter inventory system tracking goods movement across **all 25 store hubs**, **reducing stock discrepancies by 30%**.
- Built a React kitchen queue display and a Flutter order/bill-printing app driving multiple Bluetooth thermal printers, handling **thousands of daily transactions** and keeping **order-to-kitchen time under 5 minutes**.
- Built a full-stack ops dashboard (React, **Node.js, PostgreSQL**, Airtable) for real-time order tracking and menu management, replacing manual customer service workflows.
- Shipped features for the native Android app (Kotlin) to **1,500+ users** on Google Play.

eFishery - Software Engineer (Frontend) Oct 2023 – May 2024

An IoT unicorn startup providing technology solutions for the aquaculture industry.

- Built real-time IoT monitoring dashboards (React, TypeScript, Redux) visualizing aquaculture sensor data for a **Ministry of Marine Affairs and Fisheries** partnership program.
- Delivered feeding analytics charts that helped farmers optimize feeding, **contributing to a 25% reduction in feed wastage**.
- Engineered **on-demand ISR** for the company landing page (Next.js, Strapi webhooks), serving static pages with near-instant content updates and **significantly faster load times**.

Education

Universitas Pendidikan Indonesia Sept 2019 – Sept 2023

S.Kom. in Ilmu Komputer (Bachelor of Computer Science)

Skills

Languages: JavaScript, TypeScript, Dart, Kotlin, Python
Web: React, Next.js, Vue.js, Refine, Redux, Zustand, React Query, TailwindCSS, Ant Design
Mobile: Flutter (BLoC), Kotlin (Android)
Backend & Automation: Node.js, Express.js, PostgreSQL, Prisma, Airtable, WebSocket, MQTT, Puppeteer
AI: Gemma, Llama, llama.cpp, LLM APIs, Claude Code
DevOps & Tools: AWS (EC2), Docker, NGINX, Linux, Git, Vite, Jest, Cypress, Figma, Strapi

Awards & Recognition

- **Top 10 Finalist, Hackathon Digital Cooperatives Expo 2026** (Kemenkop RI x PEBS FEB UI), building **Juragan**
- **Top 15 / Semifinalist BI OJK Hackathon 2025** & **Rank 8 of Top 50, Llama Hackathon x Hacktiv8 2025**, building **Judol Blocker** to block online gambling content in real time
- **Top 20 Finalist,** Code Run 2022 Frontend Competition (Algobash)
- **4th Place,** Game Development Category, DIMAS TI 2022 National Competition

Projects & Portfolio

- **JudolGuard** (formerly Judol Blocker): Chrome extension blocking online gambling content with Aho-Corasick keyword matching and **Gemma 4 E2B vision**, reaching **90.87% accuracy at 1.41 s/image** on a 1,468-image benchmark.
- **Sectoral** (Sectors Hackathon 2026): AI research agent for IDX equity analysts that plans the research, calls the Sectors Financial API and writes a **source-cited company update** with a full audit trace (Python, React).
- **ADK-carousel**: AI agent on **Google ADK (Go)** that researches a topic and drafts a 5–12 slide carousel, refining it through an **LLM-as-judge loop** until it scores 8.5/10.
- **AutoClipper**: local AI clipper that turns long videos into vertical TikTok/Reels clips with **word-timed captions**, scene-aware face tracking (YOLOv8) and LLM clip scoring (Python, Faster-Whisper, FFmpeg, FastAPI).
- **Juragan**: 3D web farming game (React Three Fiber, Zustand) teaching cooperative economics to Gen-Z.
- **BankPromo**: live calendar of promos from **30 Indonesian banks and e-wallets**, scraped from official sources every 4 hours (React, Cloudflare Pages and KV, Node.js, Playwright).
- **ESP32 Nav**: motorcycle turn-by-turn display; a **Kotlin Android app** streams Google Maps navigation over **Bluetooth LE** to an ESP32 screen with offline OpenStreetMap and firmware updates over Bluetooth.
- **kodepos-id**: open dataset linking **83,712 Indonesian villages** to postal codes and Kemendagri region codes, published as CSV, JSON and SQLite.