RAIHAN YUDO SAPUTRA

Software Engineer | Bandung, Indonesia
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PROFESSIONAL SUMMARY

Results-driven Software Engineer with **8 years of experience** architecting, building, and scaling production web, desktop, and backend systems for global companies across the US, UK, and Indonesia. Proven expertise in modern frontend ecosystems (**React, Next.js, TypeScript, Vue, SvelteKit**), local-first desktop applications, and resilient systems engineering (**Go, Python, Node.js, PostgreSQL, SQLite**). Dedicated to software craftsmanship, robust architectures, and high-reliability data systems.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript (ES6+), Go (Golang), Python, SQL, HTML5, CSS3/SCSS
Frontend: React.js, Next.js (App Router / SSR), Vue.js, Nuxt.js, SvelteKit, Redux, Tailwind CSS, Material UI, Styled Components
Backend & Desktop: Node.js, Go Standard Library, Fyne (Cross-Platform GUI), Django, Flask, Strapi CMS, RESTful APIs
Databases & Storage: PostgreSQL, SQLite (Pure-Go / ACID), Redis, SQLAlchemy, Double-Entry Ledger Modeling, AWS S3
Testing, Security & DevOps: Playwright, Vitest, Testing Library, Selenium, XChaCha20-Poly1305, Argon2id, GitHub Actions CI/CD, Linux, Nginx, Docker

WORK EXPERIENCE

Software Engineer - **Raihan Software** (Newark, DE, US · Remote) **Dec 2023 – Present**
- Founded an independent software engineering consultancy delivering full-stack SaaS platforms and bespoke web applications for international SMB clients.
- Architected and shipped production applications including **FacturMe** (invoicing SaaS), **PosKita** (F&B POS), and **Local Caddie** (booking marketplace).
- Provisioned and managed cloud infrastructure using **Docker on Linux VPS, AWS S3, and Vercel**, integrating Stripe payments and CI/CD automation pipelines.

Software Engineer - **Garde** (New York, US · Remote) **May 2025 – Jul 2026**
- Architected restaurant operations modules including employee shift scheduling, inventory count sheets, and P&L reporting in **React, Vue.js, SvelteKit, and Go**.
- Built a shared frontend design system and component architecture, improving operational UI consistency and accelerating engineering release cycles.
- Engineered low-latency **Go** backend APIs and reconciliation services, allowing operators to monitor live margins and inventory counts in real time.

Software Engineer - **TradeLanes** (California, US · Remote) **Apr 2024 – Jan 2025**
- Engineered resilient browser automation and web scraping pipelines with **Python, Node.js, TypeScript, and Playwright** for global freight logistics.
- Implemented automated CAPTCHA solving, browser fingerprinting mitigations, rotating residential proxy pools, and third-party scraping infrastructure.
- Automated vessel booking and shipping schedule ingestion across carriers (**Maersk, CMA-CGM, Hapag-Lloyd, MSC, ONE**), eliminating manual data entry.

Front-End Engineer - **SPE Solution** (Tangerang Selatan, Indonesia · On-site) **May 2022 – Dec 2023**
- Developed enterprise web portals for a **Financial Banking System**, a **WhatsApp Business Provider**, and internal project dashboards serving **200+ employees**.
- Designed and implemented fine-grained Role-Based Access Control (**RBAC**) using **CASL** and custom React hooks to meet strict banking security compliance.
- Architected end-to-end internationalization (**i18n**), managed complex application state via **Redux**, and enforced Airbnb ESLint/Prettier code standards.

Frontend Developer - **PT Ajita Indonesia** (Jakarta, Indonesia · On-site) **Mar 2020 – Oct 2021**
- Built high-traffic marketing campaign platforms and customer loyalty systems (including the **MLDSpot Loyalty Program**) with **React.js, JavaScript, and jQuery**.
- Implemented secure user authentication, unique coupon redeem-code validation, automated transactional mailing services, and responsive UI components.
- Engineered an internal **Python** administration dashboard for Instagram marketing automation, tracking campaign metrics and content workflows.

Software Engineer - **Raven Restocks** (London, UK · Remote) **Feb 2019 – Jan 2020**
- Built a sneaker investment SaaS and automation bots using **Python, Django, Flask, PostgreSQL, Redis task queues, and Selenium** from scratch.
- Engineered price monitors tracking hundreds of concurrent drops with **Discord Webhook** alerts, and built end-to-end licensing from Stripe payment to Discord role sync.

Software Engineer - **Juliana Jaya** (Jakarta, Indonesia · On-site) **Jan 2018 – Feb 2019**
- Developed company web landing pages and lead acquisition funnels using **React.js and modern JavaScript** to establish an online student enrollment channel.
- Architected an automated end-to-end sales pipeline integrating web capture forms, digital advertising funnels, live chat, and **HubSpot CRM** through to paying clients.

SELECTED OPEN-SOURCE & PRODUCTION PROJECTS

Financy - Local-First Zero-Based Budgeting App - **github.com/RaihanStark/financy** (Go, Fyne, SQLite) **2026**
- Architected an open-source, cross-platform (Linux, Windows, macOS, Android) zero-based budgeting application built on a strict **double-entry accounting ledger** in pure **Go** with authenticated **XChaCha20-Poly1305** encryption at rest.

FacturMe - Time Tracking & Invoicing SaaS Platform - **github.com/RaihanStark/facturme** (Go, SvelteKit, PostgreSQL) **2025**
- Built a modern freelance invoicing and time-tracking SaaS platform using **Go (Echo v4), SvelteKit, and PostgreSQL**, featuring billable hour heatmaps, multi-currency support, and automated PDF invoice generation.

PosKita - F&B Point of Sale & Operations System - **github.com/RaihanStark/poskita** (Next.js 15, TypeScript, PostgreSQL) **2024**
- Engineered an open-source Point of Sale (POS) and inventory platform tailored for F&B micro-businesses using **Next.js 15 App Router, Tailwind CSS, and Drizzle ORM**.

Local Caddie - Golf Caddie Booking Marketplace - **Client Project** (Next.js 13+, TypeScript, Stripe) **2023**
- Built an AirBnB-style two-sided marketplace for the Scottish golfing market using **Next.js App Router, TypeScript, Tailwind CSS, Material UI, Strapi CMS, PostgreSQL, and AWS S3**, featuring real-time FullCalendar scheduling and **Stripe** checkout.

Raven Raffles 2.0 - High-Concurrency SaaS Platform - **Raven Restocks** (Python, Flask/Django, Redis) **2019**
- Engineered a multi-tenant SaaS application backed by **PostgreSQL, SQLAlchemy, Redis task queues, Gunicorn, Nginx, and Sentry** to orchestrate automated multi-identity raffle entries and real-time Discord webhook notifications.