

O. Riastanjung

Software Engineer | AI Engineer

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Summary

Software Engineer with 2+ years of production experience shipping high-performance web platforms, microservices architectures, and AI-powered systems from zero to production. Delivered multiple enterprise products across government, defense, and commercial domains — including a solo-built AI-driven intelligence platform with full container orchestration and on-premise LLM deployment.

Obsessed with scalable system design, high-throughput API architecture, and pragmatic AI integration. Hands-on with LangChain, RAG pipelines, vector databases, and multi-provider LLM orchestration across real-world production workloads. Thrives in high-velocity sprint environments, adapts to new stacks fast, and consistently delivers under aggressive timelines while maintaining code quality and architectural integrity.

Proven track record working directly with C-level executives, government stakeholders, and cross-functional product teams. Looking for Software Engineer or AI Engineer roles where system-level thinking, rapid execution, and production-grade AI implementation drive real impact.

Technical Skills

Programming Languages: TypeScript, JavaScript, Python, Go, C# (.NET), PHP

Frontend & UI: Next.js, React.js, React Router, Remix, Vue.js, Nuxt.js, TailwindCSS, ShadcnUI, HeroUI

Backend & API: Node.js, Express.js, NestJS, FastAPI, Go Fiber, Gin, Flask, tRPC, GraphQL, REST API, WebSocket, RPC, IceRPC

AI & Machine Learning: LangChain, LangGraph, RAG (Retrieval-Augmented Generation), OpenAI API, Anthropic API, Gemini API, Replicate API, Claude Agent SDK, TensorFlow, on-premise LLM deployment

Databases & Storage: PostgreSQL, MongoDB, MySQL, SQLite, Supabase, Qdrant (vector database), Prisma ORM

DevOps & Infrastructure: Docker, Kubernetes, GCP, NGINX, VPS, RabbitMQ, CI/CD, CPanel

Tools & Practices: Git, GitHub, Figma, Selenium, Puppeteer, Agile/Scrum, microservices architecture, system design

Mobile: React Native, Flutter, .NET MAUI

Professional Experience

Software Engineer | Quantum Teknologi (Nusantara)

Full-time | Oct 2024 - Present | South Jakarta, Indonesia

Shipping production systems across 7 concurrent projects in a high-pace sprint environment. Designing scalable architectures, integrating multi-provider LLM pipelines, and deploying containerized services for enterprise and government clients.

- Architected and built **Compass** end-to-end (100% ownership) — an AI-driven intelligence platform deployed for government stakeholders including Kejaksaan Agung and BIN. Designed scalable backend with tRPC, Bun, RabbitMQ, LangChain, Qdrant vector search, and RAG pipelines. Collaborated with AI team on on-premise LLM integration
- Led prototype development on **QuantumByte**, an AI-powered app builder on microservices architecture. Drove 40% of implementation, initiated migration to LangChain-based agent system, and worked directly with Product, UI/UX, and CEO on product direction. Stack: GraphQL, NestJS, NuxtJS, RemixJS, FastAPI, Claude Agent SDK
- Delivered 50% of **Nexius** platform — an AI-powered financial document processor that transforms bank statement data (PDF/Excel) into complete financial reports including Journal Accounting, Cash Flow, Trial Balance, and Profit & Loss statements. Deployed with Docker and Kubernetes. Stack: RemixJS, ShadcnUI, FastAPI, WebSocket, OpenAI
- Built 50% of **CMC** features including AI-powered automation with Gemini LLM, web scrapers, and cloud deployment. Stack: RemixJS, Supabase, PostgreSQL, Selenium, GCP, Docker
- Developed 50% of **Sadewa** core system architecture with AI integration. Stack: ReactJS, HeroUI, FastAPI, OpenAI, Replicate API, WebSocket
- Contributed 25% of **QuantumOps** real-time operational modules. Stack: ReactJS, HeroUI, WebSocket, OpenAI, Anthropic
- Delivered 30% performance improvements on **RAIN** cross-platform application. Stack: .NET MAUI, RPC

Fullstack Developer | SORE Pixel Crafters

Part-time | Jul 2023 - Sep 2024 | Riau Islands, Indonesia

Owned full-stack delivery for a digital agency, handling 75%+ of all client projects from architecture to deployment.

- Designed and implemented end-to-end web applications with payment gateway integration (Midtrans), OAuth authentication, and SEO optimization
- Shipped production features across frontend (React, Next.js) and backend (Express.js, MongoDB) under tight client deadlines
- Drove measurable business impact: improved product recommendations, increased sales conversion, and reduced operational costs through technical decisions
- Technologies: ReactJS, Next.js, MongoDB, ExpressJS, Midtrans, Google Auth, Google Analytics

Frontend Developer (Intern) | Maritim Muda Nusantara

Feb 2023 - Jul 2023 | East Jakarta, Indonesia

Appointed as web development division lead during internship. Managed sprint execution and API integration across frontend and backend teams.

- Led agile project delivery ensuring on-time completion of all assigned sprints
- Integrated REST APIs, implemented authentication flows, and built dashboard modules for company profile platform
- Resolved legacy technical debt including PHP version upgrades, dependency fixes, and security patches
- Technologies: ReactJS, TailwindCSS, CodeIgniter 3, Laravel, VPS, NGINX

Fullstack Developer (Part-time) | Tanjungpinang City Education Department

Oct 2022 - Jan 2023 | Tanjungpinang, Indonesia

Built SICERDIK — a government web platform that digitized the entire student school transfer process.

- Developed full UI from design specs and built RESTful API layer with ExpressJS and MongoDB
- Deployed and maintained production services on server infrastructure
- Technologies: ReactJS, Bootstrap CSS, MongoDB, ExpressJS, CPanel

Education

Universitas Maritim Raja Ali Haji | 2020 - 2024

Bachelor of Informatics Engineering | GPA: 3.79 / 4.00

- **Thesis:** Preventing Man-In-The-Middle Attack on Web Service Data Transmission Using End-to-End Encryption (E2EE)
- **Achievement:** Highest GPA in the Informatics Engineering department, 2020 cohort

Projects

Enterprise & AI Projects (Quantum Teknologi)

Project	Description	Tech Stack
Qompass	AI-driven intelligence platform for government stakeholders (Kejaksaan Agung, BIN). Full end-to-end build with on-premise LLM integration	tRPC, Bun, RabbitMQ, LangChain, Qdrant, RAG, Python, Docker, Kubernetes
QuantumByte	AI-powered app builder on microservices architecture with LangChain-based agent system	GraphQL, NestJS, NuxtJS, RemixJS, FastAPI, Claude Agent SDK, OpenAI
Nexius	AI-powered financial document processor — converts bank statements (PDF/Excel) into full financial reports (Journal, Cash Flow, Trial Balance, P&L)	RemixJS, ShadcnUI, FastAPI, WebSocket, OpenAI, Docker, Kubernetes
CMC	Content management with AI-powered automation and web scrapers	RemixJS, Supabase, PostgreSQL, Gemini LLM, Selenium, GCP, Docker
Sadewa	Scalable platform with AI integration for content generation	ReactJS, HeroUI, FastAPI, OpenAI, Replicate API, WebSocket
QuantumOps	Real-time operational dashboard with AI-driven modules	ReactJS, HeroUI, WebSocket, OpenAI, Anthropic
RAIN	Cross-platform application with performance optimizations	.NET MAUI, RPC

Personal & Freelance Projects

Project	Description	Tech Stack
Seeker Job	Job portal with applicant and admin workflows	Next.js, Prisma, PostgreSQL, TailwindCSS
Shoecraft	E-commerce platform with admin dashboard and payment processing	Next.js, MongoDB, ExpressJS, Midtrans
E-commerce API (Go)	Production REST API with RBAC, JWT auth, and payment integration	Go Fiber, PostgreSQL, Cloudinary
Mangrove CNN Classifier	Image recognition system using Convolutional Neural Networks	Python, TensorFlow, Flask, REST API
Product Rate Classifier	ML classification using Naive Bayes algorithm	Python, Flask
Vacacity	Travel destination search platform	Laravel 11, Filament, SQLite, TailwindCSS
Badan Wakaf Kepri	Government landing page with CMS dashboard	Next.js, Prisma, PostgreSQL

Languages

- English (Professional working proficiency)
- Bahasa Indonesia (Native)