

Krisna Firdaus

Senior Full Stack & AI Product Engineer

Previously Lead Forward Deployed Engineer at Normiq.ai · Open to remote contract and part-time work · 20–40 hrs/week
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SUMMARY

Senior full stack engineer with 6+ years shipping production web and mobile products (9+ years in engineering, starting with industrial IoT at Toyota). Most recently Lead Forward Deployed Engineer at Normiq.ai, a Swiss AI startup, turning a founder's domain problems into a shipped AI assistant for architects: cited answers on Swiss building codes, automated meeting notes, and releases gated by benchmarks. Measurable frontend impact across e-commerce, fintech, healthcare, and government procurement: ~50% better Core Web Vitals, 40% faster delivery through design systems, and 70% test coverage. Has worked remotely with Swiss and Singapore-based teams, led small developer teams, and shipped contract work alongside full-time roles.

TECHNICAL SKILLS

Frontend: TypeScript, JavaScript, React, Next.js, Vite, Tailwind CSS, React Query, Storybook
Backend: Node.js, NestJS, Express, Python (FastAPI), .NET (C#), REST, GraphQL, OpenAPI, BullMQ
Data & Cloud: PostgreSQL, Supabase, TypeORM, Redis, Elasticsearch, AWS (S3, SES), Vercel, Docker, GitLab CI/CD
AI & LLM: RAG (retrieval, chunking, citations), LLM evals (RAGAS), OpenAI, Google Gemini, LangChain, Vercel AI SDK, Claude
Realtime & Media: WebSockets, Redis pub/sub, WebRTC (WHIP), OvenMediaEngine, LL-HLS, FFmpeg, three.js, fal.ai
Mobile & Testing: Flutter (iOS, Android), Vitest, Playwright, Jest, Cypress, pnpm/Turborepo monorepos
Also used: Vue.js, Nuxt.js, React Native, Golang, MySQL, MongoDB, Firebase, Google Cloud, ONNX, OpenClaw
Languages: Indonesian (native), English (professional working proficiency)

PROFESSIONAL EXPERIENCE

Lead Forward Deployed Engineer | [Normiq.ai](#)

Remote (Switzerland) · Apr 2026 – Oct 2026

Swiss AI startup building an assistant for architects and property developers. Worked directly with the founder to turn domain problems into a shipped product.

- Built a RAG assistant that answers questions on Swiss building codes (SIA norms, cantonal and municipal zoning rules) with cited, highlighted sources, on Next.js, OpenAI, and Supabase, fed by an OCR and chunking pipeline in FastAPI.
- Built meeting capture with a recording bot that turns architect meeting transcripts into structured meeting protocols.
- Set up an eval-driven release process: a bilingual (German/English) golden question set, RAGAS benchmarks, and feature flags, so retrieval changes ship only when they beat baseline on the hard set.
- Cut answer latency with streaming responses and model routing; shipped onboarding, invite-based sign-up, project memory, and product analytics.

Senior Software Engineer | [Bukumed](#)

Apr 2025 – Apr 2026

- Built AI assistants: an OpenClaw virtual assistant that automated routine workflows for enterprise clients, and a real-time voice assistant (Web Speech API, GPT-4o mini).
- Architected a shared design system and frontend dashboard adopted across multiple concurrent client projects.
- Led monorepo adoption and built testing infrastructure that reached 70% code coverage, reducing production bugs and raising release confidence.
- Built an AI-assisted delivery workflow connecting Claude with Linear/Jira, Figma, and the codebase for ticket-to-code traceability and faster design handoff.

Senior Full Stack Web & Mobile Developer | [Kick Avenue](#)

Jan 2024 – Apr 2025

Indonesian marketplace for sneakers, streetwear, and luxury goods.

- Led the marketplace redesign (Next.js, React, Blazor) and the Flutter iOS/Android apps.
- Built a Storybook design system shared across web and mobile, increasing development velocity by 40%.
- Improved Core Web Vitals and page load speed by ~50% through caching, code splitting, and lazy loading.

Software Engineer | [GovTech Procurement](#)

Remote · Jun 2023 – Jan 2024

- Developed the national e-procurement marketplace for LKPP (Indonesia's National Public Procurement Agency) with Next.js, React, and GraphQL.
- Delivered a stack migration and UI/UX overhaul that improved system performance and user engagement.
- Worked with public-sector stakeholders to meet accessibility standards and compliance requirements.

Software Engineer | Tribe Fintech

Remote (Singapore) · Mar 2023 – May 2023

- Built React web apps for banking clients, optimized for low-bandwidth and 3G users in emerging markets.
- Led the frontend migration from Material UI to Tailwind CSS and improved application performance by 30% through load-time optimization, caching, and resource management.
- Managed and mentored two outsourced developers to deliver on schedule.

Software Engineer II, Web | Moladin

Jul 2021 – Feb 2023

Indonesian automotive marketplace and vehicle financing platform.

- Led the overhaul of the automotive marketplace and CRM dashboard with React and .NET.
- Built .NET backend APIs and migrated the React frontend to a Storybook component library.
- Managed and mentored two frontend developers, and led the team's technical SEO work to 80% SEO coverage, growing organic traffic.

Full Stack Engineer | Talentics

Feb 2021 – Jun 2021

- Built real-time chat with WebSockets and integrated payments supporting multiple payment methods.
- Developed REST APIs, optimized database queries, and set up automated testing.

Software Engineer (IoT) | Toyota Motor Manufacturing Indonesia

Jan 2020 – Jan 2021

- Built IoT inventory tracking, production dashboards, and sensor-integrated QA testing modules.

Maintenance Engineer | Toyota Motor Manufacturing Indonesia

Sep 2017 – Jan 2020

- Programmed PLCs and built machine connectivity and IoT monitoring for predictive maintenance.

REMOTE CONTRACT & FREELANCE

Frontend Developer (Freelance) | Unity.sg

Remote · Jun 2022 – Nov 2022

- Built a crypto trading web app with encryption, identity and auth services, and secure admin tools.

Frontend Consultant (Project-based) | GovTech Edu

Remote · Nov 2021 – Feb 2022

- Built Kampus Mengajar, part of the Ministry of Education's Kampus Merdeka program, with React and GraphQL.

TEACHING & MENTORING

Instructor & Technical Mentor | Dibimbing, Rakamin, Bangkit & others

Part-time · 2021 – Present

- Current mentor at Dibimbing: mock hiring-manager interviews, coaching, and portfolio and project reviews.
- Mentor, judge and final project evaluator at Coding.id and RevoU; Subject Matter Expert and judge at Rakamin.
- Taught software engineering and full stack development at Bangkit Academy (led by Google, Tokopedia, Gojek & Traveloka; cohorts of 30-50), Binar Academy and Skilvul.
- Mentored BahanBaku, a team in Bangkit Academy's incubation program, through its Play Store launch.
- Named Best Frontend Instructor at Ruangguru (2022); technical evaluator at GoTo Impact Foundation.

EDUCATION & CERTIFICATIONS

Bachelor of Computer Science, BINUS University

2026

Associate Degree, Mechatronics, Robotics & Automation, Toyota Indonesia Academy (full scholarship)

2017

Google Cloud Platform Fundamentals: Core Infrastructure, Coursera

Nov 2020

Google Cloud Platform Fundamentals for AWS Professionals, Coursera

Nov 2020

Managing Machine Learning Projects with Google Cloud, Coursera

Nov 2020

Getting Started with AWS Machine Learning, Coursera

Nov 2020

Artificial Intelligence Training, Digital Talent Scholarship

Nov 2019

Training: Backend Engineer in Golang (Alterra Academy, grade A, 2023), Flutter Developer (Course-Net, 2023), Full Stack Web (Impact Byte, 2020)