Andre Hadianto Lesmana

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Full-stack engineer with ~6 years building high-performance web products for startups (Vapi, Hedra). Shipping AI LLM / RAG applications, full-stack TypeScript, and serverless backends.

SKILLS

- Languages: React, Next.js, TanStack, Vite, React Native, Expo, Express.js, hono
- Infra: AWS Serverless, Supabase, NeonDB, PostgreSQL, DynamoDB, Railway, Vercel, Cloudflare, CI/CD, Git
- AI: LLM integrations, RAG, AI-assisted development (Claude, Cursor, ChatGPT)
- Security: OAuth 2.0/OIDC, Posthog, Vercel analytics, Sentry
- Fluent in English and Bahasa Indonesia · Singapore PR

WORK EXPERIENCES

Airfoil Studio Singapore - Senior Product Engineer (Full-Stack) | Aug 2024 to Present

- Led 3 engineers in AI-assisted development. Gathering requirements from stakeholders, authoring versioned project specs, coding guidelines, and agent skills enforced via CI/CD — oxfmt, oxlint, tsc, CVE scanner — and strict PR reviews to ensure consistent reproduction output for: **Vapi** (vapi.ai), **Foundry-Robotics** (foundryrobotics.ai), **Sequence-holdings** (seqholdings.com), **Pear Trade** (pear.trade), **Hedra** (hedra.com)
- Implemented AI summaries for groups of Meld posts using **few-shot + chain-of-thought prompting**, cached in NeonDB. Reducing token usage and powering similar-post recommendations.
- Led the decision to split Meld from the Railway internal-tool monolith to Vercel as a standalone TanStack Start app as it outgrew the internal tool, trading shared auth and infra for independent deployments, per-PR previews, and isolated envs.
- Implemented cookie-based authentication with **Better Auth and Google OIDC**, enforcing domain allowlist and workspace membership.
- Built a scheduled LLM reporting pipeline using cron jobs, aggregating data from Float, Slack, Linear, and BuildBetter APIs into structured summaries via few-shot and chain-of-thought prompting, delivered to Slack on configurable schedules and periods.
- Architected company wide daily-updates app **with Slack bot and LLM integration**, summarising team updates and flagging high-risk project blockers.

Airfoil Studio Singapore - Product Engineer (Full-Stack) | June 2022 to Aug 2024

- Developed a full-scale web application used by 1,000 concurrent users in ETHDenver 2023 without downtime using TypeScript with Create-React-App bootstrap on Parcel, deployed on Cloudflare. Leveraged Image Transformer, Font Optimizer and code splitting with React.Lazy to reduce bundle size by 50%.
- Built a **scoping web app** that standardised designer-engineer feasibility reviews and handoffs across 10+ projects, reducing scope overruns.

Government Technology Agency (GovTech) - Software Engineer | Nov 2020 to June 2022

- Developed a TypeScript script to automate SupplyAlly transaction flows, cutting setup from 5 calls in 10 minutes to 1 command in under 1 minute. Replaces manual batch calls and speeding up feature testing for the team.
- Engineered a notification service with double encryption (JWE/JWK), integrating SGNotify and Singpass for secure citizen messaging.
- Designed the TypeScript backend and DynamoDB schema for GovWallet's credit disbursement to government agencies.
- Maintained and tested a TypeScript serverless backend on AWS, optimising deployment and scaling.

PROJECT

Cornblock - https://cornblock.app

- Designed and shipped an achievement-badge system for a privacy-first mobile habit app, informed by Reddit ICP research and Mobbin benchmarks, improving paid-subscriber retention among early users by 3x.

AI-Powered Customer Support - https://ackreply.com/

- Architected in-house LLM RAG chatbot using DeepSeek. Developed retrieval pipeline using Postgres + pgvector and Azure embedding + Redis caching.
- Developed a full-stack application with Vite+TanStack and websockets to improve customer support experience with AI Agents. Features include an admin panel and detachable chat window widget.

Badminton Courts Finder - https://badmintoncourts.online/

- Launched a performant web application which tracks badminton courts availability in Singapore. Animated and sounded with framer-motion and web-haptics to maximise user experience, garnering over 1000 impressions on launch and over 40 daily users.

EDUCATION

Singapore University of Technology and Design | May 2017 to Aug 2020

- Bachelor of Engineering (Information Systems Technology and Design)

AWARDS

HackOMania 2019 - 2nd Runner-up (top 3 of 45 teams) | Feb 2019