

Karel Malbroukou Moendzenahou

AI Product Engineer | LLMs · AI Agents · ComfyUI · TypeScript

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Summary

I build things. Apps, AI systems, and the occasional garden bed.

Founder and AI product engineer. Right now I'm building Loovie, an AI video maker that turns text and photos into multi-shot cinematic videos on iPhone and iPad. I designed the ComfyUI workflows powering generation and built the complete video editing system. Revenue-generating, on the App Store.

15+ years in software. The last few years: shipping AI-powered consumer products end-to-end. Comfortable from prompt engineering and ComfyUI graphs all the way to TypeScript on React Native and AWS infrastructure.

I like turning ambiguous problems into shipped things.

Skills

AI / ML: LLM integrations (Anthropic Claude, OpenAI), AI agents and agentic workflows, ComfyUI workflow design and orchestration, AI video and image generation, prompt engineering, RAG, evaluation.

Languages & frameworks: TypeScript, JavaScript, Node.js, React, Next.js, React Native, Python (for AI), HTML/CSS.

Cloud & infra: AWS (certified), Cloudflare, Docker, Lambda, GitHub Actions, queue-based generation pipelines.

Product & founder: Customer discovery, prompt-product evals, shipping iteratively, marketing, social content, App Store launches.

Experience

Founder, CultivX & Rhizo

Jun 2023 to now

Australia, self-employed. Building kickass mobile apps and regenerative-living products.

- Loovie. AI video maker for iPhone and iPad. Multi-shot generation, character libraries, AI VFX, motion reference, full timeline editor. I designed some of the ComfyUI workflows powering part of the generation, and built the complete video timeline editor. Revenue-generating, on the App Store.
- ZeroMiss. Smart alarms that sync meetings, meds, and routines. Revenue-generating, on the App Store.
- HykeFresh. Events and people app for discovery, check-ins and connection. Built with Bertrand Le Foulgoc.
- Veggiecrush (under Rhizo). Garden planner on iOS that helps anyone grow food. Backyard or windowsill.
- Day-to-day: full-stack TypeScript, React Native, ComfyUI workflows, AI agents, LLM integrations (Anthropic, OpenAI), AI video and image generation. Plus the founder stuff ... marketing, content, outreach, shipping fast.

Full Stack Consultant at ClearRoute

Nov 2024 to Jul 2025

Contract via CultivX. Melbourne, Australia.

- Built a Developer Experience (DevEx) platform from scratch. Full ownership of frontend and backend.
- Owned UI design and architecture decisions, including writing ADRs and getting them reviewed.
- Ran demos and design walkthroughs with stakeholders.
- Stack: TypeScript across the stack.

Full Stack Engineer at Exo Digital

Aug 2024 to Oct 2024

Contract via CultivX. Melbourne, Australia.

- Built a website to match degrees between universities.
- Full-stack engineering. TypeScript across frontend and backend.

Security & AWS Replatform Lead at SelfWealth

Jun 2023 to Jun 2024

Contract via CultivX. Melbourne, Australia.

- Led security and AWS replatforming for a publicly listed share-trading platform.
- Designed and implemented a complete new AWS tenancy. Security controls, IAM, networking, auditing.
- Led the complete migration from the legacy environment into the new tenancy.
- Stakeholder management with the executive team.

Lead Engineer at MYOB

Sep 2022 to Jun 2023

Contract. Melbourne, Australia.

- Lead engineer for MYOB's CI/CD platform, with product management responsibilities for the platform.
- Coached, mentored, and tech-led a team of junior to mid-level engineers.
- Facilitated workshops to understand internal customer pains and needs, and used those insights to drive the strategic CI/CD solution.
- Built the vision and strategy for the future of CI/CD at MYOB.
- Built product roadmaps and inspired teams and senior stakeholders around them.
- Built a set of principles and standards for our teams.

Multiple roles at ANZ

Jun 2019 to Sep 2022

Full-time. Melbourne, Australia. 3 yrs 4 mos.

- AWS Lead Engineer (10 mos). Built AWS solutions for internal customers. Led on-call roster and 24x7 strategy.
- PO / CX professional (1 yr 6 mos). Hired and led the Engineering Experience team. Ran the internal Cloud portal strategy. Got funding for two new teams.
- Tech Product Owner (1 yr 2 mos). Tech operations lead for Credit Decisioning Platform. Scaled on-call rotation from 1 to 4 people.

Earlier roles

2007 to 2020

- Lead Frontend Engineer at FLEWiD Technologies (Apr 2020 to Mar 2021, Contract). Built e-commerce portals from scratch. Backend-for-frontend. Trained juniors. Future-state strategy.
- Lead Engineer at irexchange (Nov 2018 to May 2019, Contract). API plus queue-driven micro-services. First mobile portal experience.
- Delivery Engineering Lead / Acting CTO at Blockchain Tech (Jan 2018 to Oct 2018). Immutable automated delivery. Security model. Worked with team and CEO on long-term strategy.
- Tech Co-founder at Carloop.com.au (Feb 2017 to May 2018). Built event-driven cloud platform from scratch.
- DevOps Consultant at Cevo Australia (Apr 2016 to Jul 2017). Clients: REA, Aconex, Monash, irexchange. AWS migrations, CD pipelines, ADFS-AWS integration.
- Senior Systems Engineer at Sportsbet (Aug 2015 to Apr 2016).
- Lead Site Operations / Site Availability Engineer at REA Group (Apr 2011 to Aug 2015). Managed ops team. Reduced AWS account plus VPC setup from 2 weeks to 30 mins. Reduced app deployment from 1 to 2 weeks down to a day. Trained developers on operations.
- Earlier: AMEN (Paris, web hosting). PowerE2E (China, B2B). SUPINFO (Linux trainer, Reunion Island then China).

Certifications & training

- AWS Certified. Linux LPI 101 / MCU / MCA.
- Customer Experience Strategy and Design at RMIT (2022).
- AWS Architecture Training (2013). Akamai Training (2014). PCM Training (2016).
- SUPINFO (2004 to 2007). Cisco, Linux, Solaris, Java, Oracle, VoIP, Microsoft, .Net.
- BTS Computer & Networks (2002 to 2004). C/C++, ASM, TCP/IP, Algorithmmy, UML.

Languages

- French (native). English (fluent). Mandarin Chinese (basic). Japanese (basic).