

# Karel Malbroukou Moendzenahou

Senior Full-Stack Engineer | TypeScript · React · Node · AWS · Cloudflare

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## Summary

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

Full-stack engineer and founder. 15+ years in software. Right now I'm shipping AI-powered mobile and web products under CultivX and Rhizo.

Most recent contract: built a DevEx platform from scratch at ClearRoute. Frontend, backend, ADRs, demos. TypeScript across the stack.

I work end-to-end. Requirements, UI/UX, architecture, full-stack code, AWS infra, deployment, stakeholder talks. I like turning ambiguous problems into shipped things.

## Skills

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

**Cloud & infra:** AWS (certified), Cloudflare, Docker / containers, Lambda, GitHub Actions, Buildkite, Terraform, CI/CD pipelines.

**Architecture & practices:** Full-stack systems design, DevEx, ADRs, microservices, event-driven, API plus queue, observability, security, on-call.

**AI / ML:** AI agents, LLM integrations (Anthropic Claude, OpenAI), ComfyUI workflows, AI video and image generation, prompt engineering, RAG.

**Soft skills:** Coaching, tech leadership, stakeholder management, design walkthroughs, demos, strategy and roadmap building.

## Experience

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### 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.

### Founder, CultivX & Rhizo

Jun 2023 to now

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

- Founded CultivX (AI mobile apps) and Rhizo (regenerative living). Shipped four iOS apps end-to-end.
- Loovie. AI video maker for iPhone and iPad. Built full-stack: React Native + TypeScript on mobile, Node on backend, Cloudflare for infra, ComfyUI workflows for AI generation. Revenue-generating, on the App Store.
- ZeroMiss. Smart alarms iOS app. Revenue-generating, on the App Store.
- HykeFresh. Events and people app, built with Bertrand Le Foulgoc.
- Veggiecrush (Rhizo). Garden planner on iOS that helps anyone grow food.
- Day-to-day: full-stack TypeScript, React Native, Cloudflare, AI agents, LLM integrations, AI video and image generation. Plus the founder stuff ... marketing, content, outreach, shipping fast.

### 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

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- 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, Algorithmy, UML.

## Languages

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