

Mustafa Dualeh

Full-Stack Product Engineer · AI-assisted delivery

Asia-Pacific (UTC+8) · Remote contract, freelance or part-time

Available now, up to 25 hours a week. Remote first; available to travel for short on-site periods.

mustafa.dualeh.dev@gmail.com · mustafadualeh.com · linkedin.com/in/misterdualeh · github.com/mufasa08

SUMMARY

Software engineer who spent eight years shipping Android and web products in Japan (2017–2025): at Nissan, at Daimler Trucks Asia, and as the sole Android developer of the Smooz browser (100,000 downloads). Since March 2026 I have been building Tinkr, a pre-launch 3D-printing platform, by directing AI coding agents with a second agent's review, tests and CI as the merge gate. I help startups and small teams ship MVPs, mobile apps and practical AI features.

Services: MVP build · Payments fix & build · AI feature in production

EXPERIENCE

Founder & Technical Lead, Tinkr

Tinkr App Ltd (UK) · Remote · Mar 2026 – Present · Pre-launch, private beta · Case study: mustafadualeh.com/work/tinkr

- Defined the product and architecture for a 3D-printing order platform: an API, four React apps and a cloud slicing service. Directed AI coding agents (Claude Code implementing, OpenAI Codex reviewing) and approved every merge after a second agent's review and CI.
- Designed the payment flow: Stripe Checkout as merchant of record, created only from locked quotes, with every webhook re-checked against Stripe before an order changes. Configured Stripe and tested the flows end to end. Provider payouts queue for admin-approved batches (in trial).
- Specified the transactional core on Cloudflare Workers and Postgres: every order change happens in one database transaction, and a retried request can never apply twice.
- Specified the AI features: every upload is screened before anything is generated, and image-to-3D generation fails safe and stays inside a daily budget.
- Set the delivery rules: by the end, every behaviour change needed a test that failed first, and CI gated every promotion to production across Cloudflare, Supabase and Google Cloud.

Android Engineer, Nissan Motor Corporation

Tokyo, Japan · Feb 2020 – Oct 2025

- Built a camera-based Digital Driver's Guide prototype using TensorFlow Lite transfer learning, ML Kit and CameraX.
- Shipped Nissan Connect Android features and built against the Android Automotive Car SDK. Introduced unit testing; contributed to the consolidated Flutter app.

Full-Stack Developer, Daimler Trucks Asia (FUSO)

Kawasaki, Japan · Jun 2018 – Jan 2020

- Built internal Kotlin/Spring Boot and React apps: a quiz platform, truck-driver tracking, and the web front end of a bus-tracking proof of concept later used by staff and clients.
- Taught a three-month introductory programming course in Kotlin to non-developers.

Lead Android Engineer, Astool Inc.

Tokyo, Japan · Jul 2017 – May 2018

- Sole Android developer of the Smooz mobile browser (app since discontinued): 100,000 downloads and a 4.5-star rating within three months. Migrated it from Java to Kotlin and set it up for part-time developers to continue.

Earlier: systems engineering at Computec Japan and programming at York University (2013–2017).

SKILLS

- **Languages:** TypeScript, JavaScript, Kotlin, Java, SQL, Dart
- **Web and backend:** React, Vite, Node.js, Hono, Spring Boot, REST and OpenAPI, Cloudflare Workers, PostgreSQL, Supabase
- **Payments and AI:** Stripe (Checkout, webhooks, capture, refunds, Identity), Wise; Claude API (vision, structured output), image-to-3D APIs
- **Mobile:** Android (Jetpack, Compose, coroutines, MVVM), Flutter, TensorFlow Lite, ML Kit
- **Delivery:** GitHub Actions, Docker, GCP Cloud Run, Vitest, Playwright, Sentry, Claude Code and Codex agent workflows

EDUCATION

B.A. Computer Science, minor in Japanese, York University, Toronto, 2015 · English; Japanese (conversational)