

LUKE DANG

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AI Product Builder · Technical Product Manager

Build operational software end-to-end in unfamiliar domains: learn the workflow fast, reduce risk before code, and ship the smallest reliable system real users adopt. Strong across product scoping, system design, Supabase/RLS architecture, AI-assisted execution, and production QA.

Professional Experience

Product Builder & Technical Product Manager

Cognito Technology Canada Inc. · Aug 2023 – Present

Translated ambiguous founder briefs into production-ready architecture across a portfolio of 20–30 ventures in SaaS, fintech, logistics, and edtech.

- Owned product scoping, schema design, implementation planning, QA review, and deployment handoff across multiple concurrent MVPs.
- Designed Supabase + Postgres + RLS backends where role boundaries, data governance, and adoption friction shaped the schema, not just feature lists.
- Maintained implementation control across multi-agent AI development workflow (Claude, Claude Code, Codex, Playwright) using scoped prompts, version control, QA gates, and human review — preventing drift across complex multi-file builds.
- Made deliberate scope cuts to keep first versions adoption-safe over feature-complete; iterated only on what real user behavior revealed.
- Produced business plans, market analysis, and incubation milestone documentation alongside product builds.

Organization Design

GEEK Up · Aug 2020 – Sep 2021, Jul 2022 – Dec 2022

Designed organizational systems and operational workflows for a growing technology company.

- Redesigned competency frameworks, contribution models, and performance review processes used across engineering and design teams.
- Identified operational bottlenecks through workload and resource analysis — reducing review cycle time and improving capacity planning.
- Structured scalable internal systems for team coordination as headcount grew.

Learning Design Expert

Topica Edtech Group · Nov 2021 – Jul 2022

Analyzed platform workflows and operational data within a large-scale edtech environment serving 100K+ learners.

- Mapped LMS/CMS data flows and identified integration gaps that informed product improvement roadmaps.
- Built descriptive and predictive models to support product and operational decisions using SQL, Python, and spreadsheet tools.

Selected Projects

Cadence — Private Music Education Platform

Founder & Product Builder · Production pilot → [Case Study](#) | [Prototype](#) | [Production](#)

End-to-end product for Suzuki music teachers and parents — lesson continuity, scheduling, and parent-guided practice support.

- Built from six months of parent-side observation of a real teacher's invisible operational work, then implemented in a focused two-week sprint — speed came from prior context, not from skipping product thinking.
- Designed backend governance with Supabase RLS and parent-safe database views to enforce teacher-private observations and parent-safe access across teacher, parent, and student roles.

- Made deliberate scope cuts — no messaging, no parent scoring, no billing, no passwords — to keep the first version adoption-safe for a non-technical first user.
- Reduced pilot friction with PWA install flow, coach marks, and a printed onboarding guide.
- Live in production with a real Suzuki violin/viola teacher, her students, and their families.
- **Stack:** *React, TypeScript, Supabase/Postgres RLS, Edge Functions, Vercel, Resend, Playwright.*

Puppy Program OS — Foster Engagement Platform

Product Designer & Project Lead · Pre-pilot → [Case Study](#) | [Prototype](#) | [App](#)

Pre-pilot operational system designed for a national nonprofit program managing 200+ dogs across breeding, training, and placement.

- Built multi-role workflows, data governance, alert logic, and internal dashboards covering foster families, staff, and organizational stakeholders.
- Designed onboarding flows for non-technical foster users, informed by firsthand experience as a dog guide foster.
- Designed for pilot fit and adoption safety, not feature completeness — focused on reducing operational coordination overhead between foster families and program staff.
- Stack: React, TypeScript, Supabase/Postgres RLS, Vercel.

Multi-Agent Development Workflow

Independent Project · Operating Model → [Case Study](#)

Operating model for coordinating multiple AI tools across planning, implementation, QA, and deployment without losing control of scope, quality, or product intent.

- Designed a 7-step operating loop across planning, implementation, refactor, QA, and deployment — operator owns intent, AI executes within scoped prompts, and every step is gated by version control and QA.
- Applied across multiple active production projects under real shipping constraints, not isolated experiments.
- Reduced implementation drift in multi-file AI-generated codebases by treating AI output as untrusted by default and inspecting the boundaries that affect data, security, or user trust.

Education

Engineering Physics coursework, Ho Chi Minh City University of Technology (Bach Khoa), completed first year

Certifications

Google Data Analytics · IBM Data Analyst · Google Project Management

Technologies

Web: React · TypeScript · JavaScript · HTML/CSS · Tailwind | **Data:** Python · SQL · Power BI | **Backend & Infra:** Supabase · PostgreSQL · RLS · Edge Functions · Vercel · GitHub | **AI workflow:** Claude · Claude Code · ChatGPT · Codex | **QA:** Playwright · Manual mobile QA

Project & Workflow tools

Jira · Notion · Obsidian · Draw.io · Whimsical