Tomas Morales

AI Product Engineer | Full-Stack Builder | Generative AI Products
📍 Santiago, Chile — Open to relocation (San Francisco preferred)
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Summary

AI Product Engineer and full-stack builder with 10+ years of experience delivering 0→1 products.
Former CTO (5 yrs) leading 50+ projects and technical teams; currently building AI-powered
education infrastructure at 2 Hour Learning. Daily **power user of Claude Code and GPT models**
for content generation, crawling, enrichment, and structured data transformation. Skilled at
prototyping, iterating rapidly, and carrying AI systems through the **full lifecycle: ideation, model
selection, productionization, and maintenance**. Experienced in designing **knowledge-graph-
driven learning systems** that apply mastery-based learning and spaced repetition. Passionate
about raising the ceiling of what's possible with AI and lowering the floor of who can design.

Experience

AI Product Engineer (Senior PM / Engineering Lead)

2 Hour Learning — Remote | Feb 2025–Present

- Designed **generative AI pipeline** to create lessons and question banks from a knowledge
  graph (Math Academy Way), enabling mastery-based learning and spaced repetition. Each
  atomic skill generates targeted lessons and exercises to close knowledge gaps dynamically.

- Sole technical owner of **Common Core Crawl**, an AI-assisted system that ingests and
  transforms standardized test data into **QTI 3.0 XML** for large-scale use.

- Built converters to transform PDFs/HTML into QTI, achieving **~100% accuracy** on
  supported question types.

- Integrated **AI prompting pipelines** for crawling, enrichment, transformation, and validation
  with Claude & OpenAI.

- Documented **prompt engineering strategies** ("brainlifts") after extensive experimentation
  to improve reliability and speed.

- Delivered end-to-end systems: architecture, coding, deployment, and iteration at startup
  pace.

CTO & Co-Founder

Tubesoft — Remote | 2020–2025

- Led a **15-engineer team**, hiring, mentoring, and building company-wide engineering culture and career paths.
- Directed **50+ full-stack projects** from idea to production across retail, finance, agronomy, and education.
- Developed **project starter templates and internal libraries** (monolithic apps with auth/payments, APIs, mobile/web clients) that saved **100–200h per project**, standardized codebases, and accelerated delivery — functioning as the company's **internal developer platform**.
- Built internal **team management platform** for tracking projects, time, costs, peer evaluations, and career growth, used daily by 15 engineers and 3 managers.
- Delivered scalable platforms using **React, Next.js, Node.js, AWS, GCP, Docker**.

Founder (part-time)

Ztudia — Remote | 2024

- Built a **generative AI tutoring prototype** with early GPT models to create personalized exercises and automated feedback.
- Applied **prompt engineering** to deliver adaptive content aligned with student weaknesses.

Freelance Software Engineer

Chile | 2015–2019

- Built a **personalized PreU platform** for adaptive test prep.
- Developed a **real estate market analytics tool** to collect and analyze property data automatically.
- Delivered full-stack projects end-to-end: requirements, coding, deployment, and client onboarding.

Tech: Ruby on Rails, Golang, Python, AWS, Elastic Beanstalk, PostgreSQL

Education

B.Sc. Industrial Engineering, Diploma in Computer Science
Pontificia Universidad Católica de Chile (top LATAM university)

Skills

- **AI & ML:** Generative AI, prompt engineering, Claude Code, OpenAI APIs, Anthropic APIs, knowledge graphs, mastery-based learning, spaced repetition, QTI transformation
- **Fullstack Development:** React, Next.js, Node.js, TypeScript, Prisma, tRPC
- **Infrastructure:** AWS (Lambda, RDS, S3, CDK), Docker, GitHub Actions, GCP
- **Databases:** PostgreSQL, MongoDB
- **Leadership:** Hiring, coaching, building engineering culture, 0→1 execution, product strategy

Side Projects

- **Ztudia (2024):** Generative AI tutoring prototype (exercise + feedback generation).
- **Freelance projects (2015–2019):** EdTech and real estate analytics platforms.