

Alex Toumayan

SOFTWARE ENGINEER / PRODUCT ENGINEER / APPLIED AI

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Full-stack product engineer building role-aware platforms, applied AI workflows, and tools that make complex human systems easier to use.

PROFESSIONAL EXPERIENCE

Foundations to Mastery

Jan 2025 - Present

Co-Founder, Founding Engineer & Head of AI

- Built a React/Supabase learning and operations platform spanning learner, guardian, tutor, and administrator workflows across diagnostics, courses, personalized paths, reports, and staff review.
- Designed Postgres and Edge Function services with role-aware authorization, learner capability resolution, household checkout, webhook-derived order state, and entitlement-backed access.
- Built diagnostic evaluation and report workflows with deterministic and model-assisted review, provenance checks, versioned release states, and educator signoff before family-facing publication.

Seed Health

Aug 2024 - Mar 2025

AI Consultant

- Built a working Flask personalization and learn-to-earn demo spanning onboarding, product-fit quizzes, learning modules, and Agent Flora. A six-week pilot reached 40 weekly active users and increased module completion by 24 percentage points; the personalization and learn-to-earn experience was subsequently integrated into the broader member product.
- Built a separate Streamlit article generator using retrieved Seed, SciCare, and PubMed sources with SME review. First-draft time reached 2.5 minutes; citation coverage rose from 72% to 88%.

SELECTED PROJECT

QuietDesk

2026

Creator and product lead | Native macOS utility

- Conceived, directed, and tested an AI-assisted Swift/AppKit menu bar app that hides desktop icon names until needed. Claude wrote the Swift implementation; the public repository includes a v1.0.1 release, tests, and a case study.

EDUCATION

University of California, Berkeley

Aug 2024

B.A., Computer Science & Molecular and Cell Biology (Neurobiology) | GPA 3.88 | Dean's Honors

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL

Product: React, Flask, Streamlit, REST APIs

Data & AI: Postgres, Supabase, OpenAI APIs, retrieval-augmented generation