

ALEX BOUCHARD

APPLIED AI PRODUCT ENGINEER | FORWARD-DEPLOYED ENGINEER

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VIEW THE FULL INTERACTIVE WORKFOLIO

alex-ai-engineer-portfolio.amb1122.chatgpt.site | CLICK TO OPEN

Solo founder and sole human builder behind two production AI products across web and iOS. Architects multimodal agents, deterministic authority boundaries, production evals, model reliability, and autonomous workflows while personally owning the code, release gates, and outcomes.

TECHNICAL STRENGTHS

Languages & UI: TypeScript - JavaScript - Python - React - Next.js - Vite - Tailwind CSS

Backend & data: Node.js - Serverless APIs - Supabase - PostgreSQL - Neo4j - Docker - Auth - Webhooks

AI systems: Gemini - Multimodal workflows - Agent orchestration - Structured outputs - Model routing - Evals - Safety gates

Quality & ops: Vitest - Playwright - CI/CD - PostHog - Vercel - App Store Connect - Cost/latency budgets - Incident analysis

ENGINEERING EXPERIENCE

Founder & Applied AI Product Engineer | MidnightDev | Houston, TX | Dec 2024-Present

- Architected, implemented, tested, released, and operated two production AI products end to end as the sole human owner of requirements, technical decisions, QA, and production outcomes.
- Built Yapword, the App Store's first and only word game whose generative-AI character reads the live letter grid and responds throughout play; deterministic software owns board truth, score, standing, and memory.
- Designed a privacy-preserving 2-of-3 multimodal adjudication engine for That's My Best that screens each photo for apparent minors without facial recognition, identity matching, Meta access, or human review; unresolved assessments fail closed.
- Made the safety gate both conservative and usable: a clean first verdict costs one call; suspicion triggers independent rechecks; confirmed flags remove only the affected tile so clean material can still publish.
- Built custom voice-quality observability that records model, latency, token, request, and deployment metadata and detects exact or near-duplicate jokes even when every provider request returns HTTP 200.
- Implemented model failover, 429-vs-5xx-aware retry, per-attempt and chain-wide budgets, rate limits, output caps, cost controls, and graceful degraded states.

PUBLIC ENGINEERING

[That's My Best case study](#) - Executable reference model for human-confirmed truth, sealed state, private/public payload boundaries, and deterministic reveals.

[gemini-reliability-proxy](#) - Provider fallback, failure-aware retry, time budgets, output caps, and denial-of-wallet limits.

[llm-safety-gate](#) - Fail-closed safety state machine with majority voting, output validation, and publish controls.

COMMERCIAL OPERATING EXPERIENCE

Senior Vice President - Acquisitions, Dispositions & Leasing | Regional Properties | Houston, TX | Jan-Nov 2025

- Led high-stakes, multi-party decisions across a Texas shopping-center portfolio of approximately 170 properties and 3.1M square feet.

Earlier commercial real estate: Senior Vice President, Retail Investment Sales, Henry S. Miller Brokerage (2018-2024); Retail Investment Sales, Marcus & Millichap (2012-2018).

Career operating proof: Executed 90+ shopping-center sales totaling nearly \$500M in transaction value as part of a two-person team.

EDUCATION

Texas A&M University | Bachelor's Degree in Finance