Robb Doering

Senior Full Stack Engineer · Agentic Engineering

robb@doering.ai (415) 713-1766
doering.ai linkedin.com/in/robbd
gitlab.com/robbd github.com/robbwdoering

Skills

Languages: Python, TypeScript/JavaScript, C++, Java, SQL, Bash

Frontend: React, Redux, Next.js, Astro, HTML/CSS, Tailwind CSS, Bun

Backend and data: REST APIs, WebSockets, Node.js, Flask, PostgreSQL, embeddings, RAG

Agentic engineering: Claude Code, Codex CLI, Gemini CLI, MCP servers, skills, hooks, Git worktrees

Experience

Doering Thinking Machines · *Software Engineer (self-employed)* Aug 2023 – Sept 2026

AI prototyping and agent tooling in Python and TypeScript, published as ~30 open-source repositories.

- **Agent orchestration.** Directed coding agents (Claude Code, Codex CLI, Gemini CLI) through scoped tasks in isolated Git worktrees, with automated code review as the gate to main: nearly 2,400 agent branches merged across 45 repositories in Q3 2026.
- **MCP integrations.** Built four FastMCP servers that replace fragile shell calls with structured tools: inTact (on PyPI) heals stale agent edits through seven increasingly permissive matches and refuses ambiguous ones; the others handle Git with commit-time secret scanning, Plane task tracking, and task routing.

Google · *Software Engineer, AdSense* Feb 2022 – June 2023

Modernized the JavaScript ad tag of AdSense, a multi-billion-dollar-a-year product, and implemented new ad formats across browser (TypeScript) and backend (C++) code.

- Set up, monitored, and analyzed A/B experiments on billions of ad queries to verify the impact of my changes, using Python notebooks and internal tools.

Space Ground System Solutions · *Software Engineer* June 2019 – July 2021

Helped bring a command-and-control system for government satellites to the web, building features in React/Redux, Java, and C++ on data-intensive APIs from NASA, DoD, and commercial partners.

- Delivered ~12 full stack features end to end, some from design documents and others where I led requirements gathering and UX design.
- Chosen as acting project lead for six engineers during the lead's three-month leave; ran Agile ceremonies, met with stakeholders, and cleared blockers.

Projects

The Epstein Index · *Public Document Explorer* Astro · React · OCR

- A public explorer for over 45,000 DOJ case-file documents, fed by an eight-stage Python pipeline (download, OCR, clean), with an interactive React timeline, maps, and a network graph.

Wikiparse · *Wikitext Translation Pipeline* Python data pipeline

- Extracted 45M citations from a full English Wikipedia dump on home hardware and published a Hugging Face dataset of 5.1M articles; converts wikitext to Markdown with composed regular expressions.

doering.ai · *Professional Portfolio Site* Astro · TypeScript

- An Astro and TypeScript site on Bun and Tailwind CSS, with accessibility and reproducibility checks.

Education

B.S. **Vanderbilt University** · *Computer Science* Aug 2015 – May 2019
Minors in Philosophy and Spanish.

Georgia Institute of Technology · *Computer Science, Interactive Intelligence* Sept 2020 – June 2022
Completed 8 of 10 courses toward an M.S.; degree not completed.