

PROFESSIONAL SUMMARY

AI/ML Technical Founder with 12+ years building production systems, specializing in LLM orchestration, agentic AI workflows, and full-stack development. Currently bootstrapping EdTech startup while running profitable AI consulting practice. Proven track record leading technical teams from prototype to production-scale systems.

EXPERIENCE

- **Reasonote** Remote
Founder / CEO May 2024 - Present
 - **AI-Powered EdTech Platform:** Bootstrapped personalized learning platform achieving 1000+ users and 4000+ generated lessons. Built sophisticated multi-LLM orchestration pipeline integrating OpenAI, Anthropic, Gemini, and Llama models with custom infrastructure layer.
 - **Technical Leadership:** Single-handedly architected full-stack platform using Next.js, Postgres, PGVector, and Vercel AI SDK. Implemented agentic content creation, real-time streaming, and LLM-driven grading pipeline with automated assessment and feedback generation.
- **Positive Sum Products** Remote
Founder / CEO May 2024 - Present
 - **AI/ML Consulting & Development:** Founded specialized consulting firm delivering custom AI/ML solutions while bootstrapping Reasonote. Built content extraction pipelines improving processing efficiency by 90% and accuracy by 80%.
 - **Agentic AI Systems:** Pioneered autonomous code generation and review systems using collaborative LLM agents. Developed intelligent suggestion systems for email analysis and automated workflow optimization.
- **Regscale** Remote
Principal AI/ML Engineer April 2023 - June 2024
 - **Document Intelligence Tools:** Built document corpus extraction and evaluation tools for automated Q&A form generation. Sole designer and developer of core processing pipeline.
 - **Cross-Platform AI Libraries:** Led development of TypeScript library for LLM orchestration, evaluation, and management. Built custom providers for OpenAI, Anthropic, and Azure OpenAI with plugin architecture supporting multiple platforms.
- **Revaly** Remote
Director of Engineering Oct 2020 - April 2023
 - **Real-time 3D Collaboration Platform:** Led team of 6 building collaborative 3D design review webapp. Architected real-time multiplayer system using GraphQL, Postgres, and WebSockets supporting cross-platform usage.
 - **Technical Architecture & Team Leadership:** Designed microservice architecture on Kubernetes with complete DevOps pipeline. Managed hiring, product development, and stakeholder relationships from prototype to production.
- **Earlier Experience** Various
Software Engineer & Research 2013 - 2020
 - **Collider (Cofounder):** Led scientific computing for next-gen 3D printing, including firmware, geometry processing pipelines, and WebGL interfaces. Managed end-to-end product development generating significant revenue.
 - **Oak Ridge National Laboratory:** Developed ground control systems for remote vehicles and radiation visualization interfaces. Managed sensitive data applications.
 - **University Research:** Contributed to FPGA-accelerated neural network research and published IEEE paper on neuromorphic architecture extensions.

TECHNICAL SKILLS

- **AI/ML:** LLM Orchestration, Agentic AI, OpenAI/Anthropic APIs, Embeddings, RAG, Neural Networks, PyTorch
- **Languages:** Python, TypeScript, JavaScript, Kotlin, C#, C++, SQL, GLSL
- **Full-Stack:** React, Next.js, Node.js, GraphQL, Three.js, WebGL, Django, Rails
- **Infrastructure:** Docker, Kubernetes, Postgres, AWS, Azure, Vercel, Git, CI/CD
- **Specialized:** Real-time Systems, Microservices, Vector Databases, 3D Graphics, WebRTC

EDUCATION

- **Georgia Institute of Technology** Remote
Masters in Computer Science, Machine Learning (Incomplete) Aug 2020 - Aug 2021
- **University of Tennessee** Knoxville, TN
Bachelor of Science in Computer Science Aug 2011 - May 2020

NOTABLE PROJECTS & CONTRIBUTIONS

- **Open Source:** Early contributor to Trimesh (primary Python 3D mesh library), Supabase, and other projects used by PyTorch3D and Blender
- **AI Research:** Interrogato (GPT-3 academic paper research tool), Lab Grad (TypeScript PyTorch reimplementation)
- **Publications:** Co-author: "Extensions and Enhancements for the DANNA Neuromorphic Architecture" (IEEE)