Aniruddh Ravipati

Applied AI Engineer

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With a background in software engineering and product design, I built my career following my generalist instinct. Built complex AI workflows in deep-tech and Venture Capital. I design and build AI workflows that are durable, hallucination-free and unobtrusive

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SELECTED PROJECTS

Sam

Sep 2026 – Nov 2026 Vermont Center for Emerging Technologies via Propel Labs

AI-native digital brain, contact repo and assistant for a venture capital team, connected to HubSpot and Google Workspace.

- Built the prototype and starter design system for VCET's board demo, helping Propel Labs win the development contract
- Owned the agent runtime and versioned prompts, and response healing. Sam went live for VCET's two co-leads on Google Cloud
- Built eval fixture ("Backstage") that allowed the product team to experiment on prompt versions, simulate emails, stakeholders and calendars for 8 complex real-life scenarios without having to access clients' Google Workspace files (like email), and test with different models and reasoning levels.

GCP Firebase Firestore React Typescript

DataHub

May 2026 – Jul 2026 Novamera via Propel Labs

DataHub gives Novamera's geologists one place to review AI-suggested file placements before feasibility modeling. Part of Surgical Mining OS, which tracks drill control unit data through processing and radargram labeling

- Developed the PRD, design and deployment. TypeScript+Fastify pilot in Novamera's AWS infra
- Unified client files and mining data input streams from Slack, email, browser uploads, and Google Drive with traceable content-based file versions as understood by the agent. Direct multipart S3 uploads with isolated processing for files ranging 10–100+ GB
- Designed and developed the agentic flow for sorting and data-based versioning files, keeping the process invisible but auditable

AWS ECS S3 OpenTofu HCL Terraform

3D Orebody Viewer

Dec 2025 – Feb 2026 Novamera via Propel Labs

Part of the broader *Surgical Mining OS*, it makes proposed drill paths and orebody models explorable in 3D for Novamera's client feasibility reports and presentations

- Wrote a voxel downsampler in TypeScript and Bun for a 6.56 GB Leapfrog export with 38 million rows that can produce varying levels of detail and size (from 10MB to 200MB)
- Built camera snap views, grade colors based on net value, and drill tooltips in React Three Fiber.

React three.js TypeScript Bun

Propel Design System

Oct 2026 Propel Labs

Co-designed Propel's brand book and published 40 React components with @shadcn/lint and guided fixes for coding agents along with 238 visual test baselines

EXPERIENCE

Freelance Engineer

Dec 2022 – Present

Propel Labs

Jun 2025 – Nov 2026

Freelance Designer and AI Engineer. Built AI workflows for VCET and Novamera through Propel in addition to data-heavy React interfaces, designed interaction states, and developed reusable components and design-system tooling, evals and lint for agents

Copenhagen Institute of Interaction Design

Dec 2022 – Jul 2025

Freelance Web Designer and Developer. Built a Webflow CMS for student showcases, applications, and course documentation

CloudAEye

Feb 2023 – Dec 2024

Freelance Product Designer. Designed Test RCA and Code Review from zero to one, bringing failure analysis into Jenkins and AI-assisted review into GitHub

Samsung R&D Institute Bengaluru

Aug 2017 – Jun 2021

Senior Software Engineer. Led three engineers developing C++ software for 5G radio access networks, including event streaming and shared-spectrum radio

EDUCATION

Copenhagen Institute of Interaction Design

Aug 2021 – Aug 2022

Interaction Design Programme

IIIT Hyderabad

2013 – 2017

Bachelor's and Master's degrees in Computer Science

SKILLS & TOOLS

Customer discovery, prototyping, product design, Figma, React, TypeScript, Python, C++, AWS, Google Cloud, IaC, NextJS, Agent harness design, Storybook, LangSmith, Langfuse, RAG

LANGUAGES SPOKEN

English (proficient) · French (B1)