Aniruddh Ravipati

Design Engineer

theforeigner.work
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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 domains such as Dev SaaS, deep-tech and Venture Capital. I design and build design systems that survive AI code with lint and eval rules

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SELECTED PROJECTS

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

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 fixtures that allowed the product team to experiment on prompt versions, simulate 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 client 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
- Co-designed UX and UI for the app. Designed the workflow for client input streams - Drive links, Slack, upload portal, mail, and manual upload by Novamera itself. Worked within Novamera's design system and contributed components to it.
- Designed and developed the agentic flow for sorting and versioning files, keeping the process invisible but auditable

AWS ECS S3 OpenTofu HCL Terraform

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 Design Engineer

Dec 2022 – Present

Propel Labs

Jun 2025 – Nov 2026

Freelance Design Engineer. Built data-heavy React interfaces for VCET and Novamera, designed interaction states, and developed reusable components and design-system tooling

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, rapid prototyping, product design, Figma, React, TypeScript, NextJS, shadcn/ui, shadcn/lint, tailwind, css, html, Storybook, Design Systems

LANGUAGES SPOKEN

English (proficient) · French (B1)