# Aniruddh Ravipati

Forward Deployed Engineer | Applied AI

theforeigner.work
Montpellier, France · open to relocation
+33 744524849
ravipatianirudh@gmail.com

I combine software engineering and product design to integrate AI into customer workflows. I built agent-integrated applications from prototype to production phases for Deep-tech and VC spaces. Customer-facing is my default.

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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 with agent functionality and a design system in six days from first commit to VCET's board demo, helping Propel Labs win the development contract
- In prod, owned the agent runtime and versioned prompts, and response healing. Sam went live for VCET's two co-leads on GCP
- 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 file placements before feasibility modeling. Part of Surgical Mining OS, which tracks drill control unit data through processing and radargram labeling

- Owned 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
- The resultant impact avoided costly mistakes like processing old data, management of hundreds of files saving 2 to 10 hours/week

AWS ECS S3 OpenTofu HCL Terraform

### 3D Orebody Viewer

Dec 2025 – Feb 2026 Novamera via Propel Labs

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

- Wrote a streaming voxel downsampler in TypeScript and Bun for a 6.56 GB Leapfrog export with 38 million rows
- Produced 10–200 MB files at several levels of detail for the browser to render as instanced cubes
- Built camera snap views, grade colors based on net value, and drill tooltips in React Three Fiber

React three.js TypeScript Bun

## EXPERIENCE

### Freelance Engineer

Dec 2022 – Present

#### Propel Labs

Jun 2025 – Nov 2026

Freelance FDE & Design Engineer. Built Sam for VCET and DataHub for Novamera. Published Propel's internal design system with 40 components and 238 visual test baselines

#### 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 so developers could investigate test failures in Jenkins and review AI feedback in 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, TypeScript, Python, C++, AWS, Google Cloud, IaC, LLM, RAG, Agent harness design, LangSmith, Langfuse

## LANGUAGES SPOKEN

English (proficient) · French (B1)