

# Abhigyan Arya

760-846-9346 | [abhigyaa@uci.edu](mailto:abhigyaa@uci.edu) | [linkedin.com/in/abhiaarya](https://www.linkedin.com/in/abhiaarya) | [abhi-arya1.github.io](https://github.com/abhi-arya1) | US Citizen

## EDUCATION

### University of California, Irvine

*B.S. Computer Science and Engineering, Minor in Mathematics GPA 3.98/4.0*

Irvine, CA

*Sep 2023 – June 2027*

## EXPERIENCE

### Opennote (YC S25)

*Co-Founder & CTO*

San Francisco, CA

*Nov 2024 – Present*

- Founding team member, scaling platform development and product growth from 0 → 20,000+ MAU (60,000+ total), as both product owner and #1 code contributor, and sole developer across all backend infrastructure.
- Designed architecture for multiple agent systems, realtime collaboration stack, security systems, text-to-video generation pipeline, and developer APIs and SDKs for customer and consumer-facing use.
- Led all technical aspects of product development, including partnerships with Meta & Groq, SOC II Compliance, alongside research tasks, such as document retrieval systems, durable objects, LLM benchmarks, etc.

### Browserbase

*Software Engineering Intern*

San Francisco, CA

*March 2025 – May 2025*

- First (of 3) engineers on team building Director, Browserbase's first consumer-facing tool for web automations.
- Designed browser infrastructure and session management stack, and developed core code-generation pipeline.
- Worked directly under the CEO and investors (from CRV, Kleiner Perkins, etc.) to beta test pre-release product.

### NASA Johnson Space Center

*Pathways Software Engineering Intern*

Houston, TX

*Aug 2024 – Nov 2024*

- Prototyped and implemented fuel-efficient control algorithms for autonomous vehicle control in C/C++, analyzing embedded footprint and compute constraints in VxWorks for presenting flight software to program leadership.
- Implemented data cleaner and software verification workflow with Linux Shell Scripts, Python (Pandas/Numpy), GitLab CI, and SQLite3 to analyze software integration with Northrop Grumman and MAXAR components.
- Owned, documented, designed, and fully developed multiple human operation tools for downlinked data in React and TypeScript for the Gateway Space Station, with high approval from flight operations personnel.

*Software Engineering Researcher*

*Dec 2023 – Jun 2024*

- Engineered inter-device spacewalk guidance system, leading 10 engineers to develop Human-In-The-Loop software and Python API for spacesuit sensor data along TypeScript/React control application for real-time navigation.
- Coordinated fundraiser for \$8000+ in research grants to demonstrate Spacewalk Mission Simulations at NASA's Lunar Testing Facilities, and to further innovate on Human-System Integration/Algorithms Research.

## PROJECTS

### Runway | Cloud Computing, Browser Agents, LLM Fine-Tuning

*runway0.vercel.app*

- Designed end-to-end AI deployment pipeline allowing for dataset generation, model training, inference, and deployment on cloud providers purely through natural language in 30 hours at TreeHacks 2025.

### Block Thing | HackMIT 2024 Winner

*github.com/uno-p-5/blockthing*

- Developed a full-fledged product for Educational Technology, leveraging Figma, Google Blockly, and OpenAI o1 to simplify coding for kids with AI and adaptive UX; Received product accolades from Y Combinator, Citadel, etc.
- Leveraged few-shot LLM fine-tuning method to tailor responses to students, and integrated a native compiling system using Python to allow AI agents to interact with code environments, enhancing software education.

### UCI CubeSat Research Project | Avionics Team Lead

- Engineered system architecture for automated orbital navigation and control in C and Linux.
- Architected subscription-based events framework to streamline ground operation connections and data transfer.
- Led 8 person team to perform computation and downlink testing for long-term spaceflight.

## SKILLS

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

**Technologies:** Docker, React, GitHub, NodeJS, Next.js, Flask, FastAPI, Linux, AWS, K8S, Figma

**Awards:** Y Combinator S25, UCI Excellence in Undergraduate Research Award, California Space Research Grant