

SUHAS ORUGANTI

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Education

University of California, Santa Cruz

Bachelor of Science in Computer Science

Expected Graduation: June 2027

GPA: 3.97

Selected Awards: Dean's Undergraduate Research Award, Dean's Honors (6x, 2023-2025)

Coursework: Data Structures and Algorithms, Computer Systems, Deep Learning, Artificial Intelligence

Experience

Professor David Haussler's Braingeneers Group

ML Engineer

February 2025 – Present

Santa Cruz, California

- Applied the **Stanford UCE model** to embed and analyze **390,000+** scRNA-seq and spatial transcriptomics profiles for tumor microenvironment studies.
- Presented project findings at the **ITCR '25 Symposium** following abstract acceptance.

Amazon

June 2025 – September 2025

Software Development Intern

Seattle, Washington

- Redesigned Amazon's "**Shop by Interest**" discovery experience by restructuring UI components and ranking logic, increasing engagement by **70%+**.
- Implemented instrumentation and executed **A/B experiments** within Amazon's **Product UI** platform to evaluate new personalization features and identify key behavioral patterns.

Tech4Good

June 2024 – March 2025

Web Developer

Santa Cruz, California

- Developed core systems for **Compass**, a task-tracking platform used by **1,000+** students to improve productivity.
- Built modular **Angular** components and **Firebase** services supporting the lab's **100+-member** development program.

Research

Computer Vision Lab

February 2025 – June 2025

ML Engineer

Santa Cruz, California

- Developed a semi-supervised **gaze-detection model** for reading behavior; contributed results to a **NeurIPS workshop** submission.
- Implemented **NaN masking** and adaptive interpolation to repair noisy eye-tracking data, improving cross-lens generalization by **65%**.

Explainable AI Lab

March 2024 – March 2025

AI Researcher

Santa Cruz, California

- Integrated OpenAI LLMs with **Prologue**'s symbolic reasoning engine to reduce hallucinations and increase transparency in academic use cases.
- Developed personalized **LLM pipelines** using **RAG** and symbolic reasoning, improving factual consistency across student-facing queries.

Projects

Mirror | Expo, Gemini API, Flask, Express.js, MongoDB — (Hackathon Winner)

- Built an AI cosmetic assistant mobile app using the **Gemini API** to analyze facial features and generate personalized product recommendations.

Meal-Connect | CSS, HTML, Python, TypeScript, Node.js, MongoDB, Express, Gemini API, Google Maps API

- Developed a platform connecting restaurants with homeless shelters using **Google Maps** and **LLM summarization** to automate food redistribution.

Technical Skills

Languages: Python, Java, C++, C, HTML, SCSS, CSS, JavaScript, TypeScript, RISC-V Assembly, Golang, SQL

Technologies: Angular, React, Firebase, Node.js, Unix/Linux, Docker, Kubernetes, MongoDB, Azure, AWS

Concepts: Full Stack, Frontend, Backend, Automation Tooling, Data Engineering, Serverless Architecture, DevOps,

Object-Oriented Design, Natural Language Processing, Computer Networking, Operating Systems, Distributed Systems

Leadership / Extracurricular

Associated Computing Machinery

Fall 2023 – Present

Treasurer

Santa Cruz

- Organized various workshops and socials, engaging **200+ participants**; collaborating with students and industry partners.
- Raised over **2,000 dollars** and managed budgets for events, ensuring resource allocation across multiple initiatives