

# Abhinav Vedati

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## EDUCATION

### University of California, Berkeley

*Bachelor of Science in Electrical Engineering and Computer Science*

Berkeley, CA

*May 2025*

## TECHNICAL SKILLS

**Languages:** Python, C#, C/C++, RISC-V, Golang, Java, JavaScript, HTML/CSS, Typescript, Rust, Ruby, R, SQL

**Frameworks:** jQuery, Node.js, ASP.NET, REST, React, Kubernetes

**Developer Tools:** Git, Docker, Amazon Web Services, Google Cloud Platform, Redis, Snowflake, ArgoCD

**Libraries:** pandas, NumPy, Tensorflow, PyTorch, scikit-learn, OpenCV

## EXPERIENCE

### Codepoint Fellow (Rotational Software Engineer)

Aug. 2025 – Present

*Sutter Hill Ventures*

*Palo Alto, CA*

- Selected for a year-long rotational software engineering fellowship at two startups funded by Sutter Hill Ventures.

*Software Engineer, Data Ingestion Team – Observe, Inc.*

*Aug. 2025 – Feb. 2026*

- Developed backend ingestion infrastructure in C++ and Golang to efficiently load petabyte-scale customer data into Observe's backend.
- Identified and implemented an alternative data structure reducing storage usage by multiple GB per customer across Redis and Snowflake.
- Built a CI/CD system from scratch using ArgoCD and Kubernetes, integrating AWS-hosted images, sandbox testing, and multi-cluster deployments, resulting in an increase in deployment frequency from weekly releases to on-demand deployments, accelerating iteration speed and reliability.

*Software Engineer, Query Compiler – Sigma Computing*

*Feb. 2026 – Present*

- Developing and supporting new backend functionality in Rust for a business intelligence platform serving 200,000+ users.

### Teaching Assistant

June 2023 – May 2025

*UC Berkeley Electrical Engineering & Computer Sciences*

*Berkeley, CA*

- Member of course staff for CS 61C: Great Ideas in Computer Architecture (Machine Structures).
- Manage tutors as a group and individually; recommend promotions to TA.
- Lead a weekly lab section; provide support on programming topics including C, RISC-V, CPU architecture, caching, virtual memory, SIMD, and OpenMP.
- Assist students with problem-solving on labs, homework assignments, and projects during office hours.

### Software Development Engineer Intern

May 2024 – Aug. 2024

*Amazon Web Services*

*Seattle, WA*

- Worked on software-defined networking for Amazon's Virtual Private Cloud, used by millions of customers annually.
- Emulated the Ethernet hardware Direct Data Placement (DDP) feature in C and Python, allowing AWS developers to test their packet pipeline changes locally, saving tens of thousands of dollars and thousands of hours of development time annually.

### Software Engineer Intern

May 2022 – Aug. 2022

*Google*

*Sunnyvale, CA*

- Worked on Google's no-code development platform, AppSheet, used by thousands of customers to build millions of applications.
- Designed and developed a front-end tool using ASP.NET to display performance data to customers and improve their app design decision making.
- Created a test system to read/write performance data in SQL for Google Cloud Spanner DB.
- Completed the main project ahead of schedule, proactively designed future improvements, and recalibrated the existing performance analyzer to increase accuracy, as requested by a Fortune 50 customer.