

# Abhinav Vedati

+1 (650)-709-6041 | [ajinjoo@berkeley.edu](mailto:ajinjoo@berkeley.edu) | [linkedin.com/in/abhinav-vedati](https://www.linkedin.com/in/abhinav-vedati) | [avedati.github.io](https://avedati.github.io)

## EDUCATION

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### University of California, Berkeley

*Bachelor of Science in Electrical Engineering and Computer Science*

Berkeley, CA

*Expected May 2025*

## TECHNICAL SKILLS

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

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

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

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

## EXPERIENCE

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### Teaching Assistant

June 2023 – Present

*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.

### UX Engineer Intern

June 2020 – Aug. 2020

*schoolhouse.world*

*Remote*

- Suggested, designed, and implemented new features for the site, including attendance tracking, Zoom integrations, and PII hashing to improve security and enhance UX.
- Collected and incorporated suggestions from our global learning community.

### Software Engineer Intern

June 2017 – July 2017

*Continental AG*

*San Jose, CA*

- Researched Tensorflow and its applicability for object detection in self-driving cars.
- Assembled a DVR that collects city traffic data to train a convolutional neural network.

## PROJECTS

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**bit** | *C, RISC-V* – A 32-bit RISC-V to hex assembler.

**EncChatPy** | *Python, socket* – A socket chat client, encrypted with 128-bit AES using the Diffie-Hellman key exchange.

**Alzheimer's Analyzer** | *R Markdown* – A statistical analysis of Alzheimer's and CDC mortality data.