

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, React

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

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

EXPERIENCE

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.

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

origami | *Go* – A compiler for a simple, dynamically typed programming language.

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.