

# Abhinav (Abhi) Vedati

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## OBJECTIVE

A software engineering internship in which I can collaborate on real world projects and empower users to achieve more.

## PORTFOLIO - <https://github.com/avedati>

- Includes a programming language, an AES-encrypted chat application, web scrapers, an auto-playing 2048 AI, and retro games.

## SKILLS

- Fluent in Scikit-Learn, Python, C, C++, C#, Java, JavaScript, HTML, CSS, Numpy, OpenCV, and OpenGL.
- Proficient in Tensorflow, Firebase, Node.js, PHP, Go, Kotlin, Swift, Assembly Language, and SQL.

## EXPERIENCE

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### UC Berkeley Dept. of EECS | Course Staff for CS 61C | January 2023 - Present

- As a Tutor, assist students with problem-solving during office hours and record exam walkthrough videos on programming topics including C, RISC-V, CPU architecture, caching, virtual memory, SIMD, and OpenMP.
- As an Academic Intern, assisted students in understanding key concepts and debugging assigned projects.

### Google Cloud | Software Engineering Intern | May 2022 - August 2022

Worked on Google's no-code development platform, 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 for AppSheet's C# backend to read and write performance data in SQL for Google Cloud Spanner DB.
- Completed the main project ahead of schedule, proactively designed future improvements, and refactored the pre-existing Spanner pipeline.
- Recalibrated the existing performance analyzer to increase accuracy, as requested by a Fortune 50 customer.

### schoolhouse.world | Software Engineering and Design Intern | June 2020 - August 2020

- 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 learning community.
- Built QA sites for testing and scalability using the Coda platform.

### Continental AG, Connected, Automated & Shared Mobility Division | Software Intern | July 2017 - August 2017

- 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.

## EDUCATION

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### B.S. in Electrical Engineering and Computer Science, University of California at Berkeley (GPA 3.784) | Expected May 2025

- Director of Pioneers in Engineering (PiE), a club that provides STEM education to underserved high schoolers through robotics.
- Relevant coursework:
  - o CS 61B: Data Structures, CS 61C: Great Ideas in Computer Architecture (Machine Structures)
  - o CS 70: Discrete Mathematics and Probability Theory
  - o CS 161: Computer Security, CS 162: Operating Systems and System Programming, EE 130: Integrated-Circuit Devices

## INTERESTS

Programming hobby projects, studying science, and making music.