

ANDREW SHIEH

andrew.shieh@berkeley.edu ◇ (650) 823-5233 ◇ andrew-shieh.github.io

EDUCATION

University of California, Berkeley

Aug 2018 – May 2022

B.S. Electrical Engineering and Computer Science

GPA: 3.63/4.0

- **Relevant Coursework:** Data Structures, Algorithms, Discrete Mathematics & Probability, Structure and Interpretation of Computer Programs, Foundations of Data Science, Computer Architecture (in progress), Computer Networking (in progress)

EXPERIENCE

Roblox

San Mateo, CA

Incoming Software Engineering Intern

Jun 2020 – Aug 2020

UC Berkeley Electrical Engineering and Computer Science

Berkeley, CA

Academic Intern (CS 61A and CS 61BL)

Jan 2019 – Aug 2019

- Assisted office hours and lab sections for two 1600+ person introductory computer science courses
- Strengthened student comprehension of computer science concepts with individualized teaching
- Taught effective utilization of data structures and sorting algorithms through projects and labs

vArmour

Palo Alto, CA

Software Engineering Intern

Jun 2018 – Aug 2018

- Created Azure virtual network watcher and programs to quickly retrieve and normalize flow logs
- Developed Python SDK to wrap a RESTful API with unit testing for full code coverage
- Created customer-facing product connectivity detection script, saving hours on troubleshooting

PROJECTS

Modern Web Application (*Python, Flask, AWS*)

- Built web app with dynamic content loading from AWS DynamoDB with Fargate microservice
- Created user registration and authentication using AWS Cognito to analyze user behaviors

Real-time Bus Tracker (*Javascript, HTML, CSS, APIs*)

- Implemented backend for web application using Google Maps API to display a custom map
- Optimized real-time bus location and bus delay tracking using data from the Open511 project

Cube Renderer (*Java*)

- Created program to render a floating rotating cube with custom cube mesh module
- Implemented matrix math modules to create cube rendering and graphics

SKILLS & INTERESTS

Languages/Technologies: Python, Java, C/C++, Javascript (React, Node.js), HTML, CSS, SQL, NumPy, Git, Amazon Web Services, Microsoft Azure, Unix/Linux

Activities: Alpha Kappa Psi (professional business fraternity), Computer Science Mentors (lead weekly small-group tutoring), Taiwanese American Student Association (cultural club)

Interests: Tennis, Backpacking, Golden State Warriors, Electronic Dance Music, Eating Ramen