

# WALLACE LIM

CS/DS  
@ UC BERKELEY

## EDUCATION

### B.A. Computer Science | Data Science

University of California, Berkeley

GPA: 3.92/4.0 Aug 2018 - May 2022

In Progress

- CS189: Machine Learning
- EE 16B: Informational Devices and System

Completed

- STAT 140: Probability for Data Science
- EE 127: Optimization Modeling
- CS 161: Computer Security
- CS 162: Operating Systems
- CS 188: Artificial Intelligence
- CS 170: Efficient Algorithms
- CS 70: Discrete Mathematics
- CS 61C: Machine Structures
- CS 61B: Data Structures & Algorithm
- DATA 100: Principles of Data Science

## CONTACT

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- [wallace-lim.github.io](https://github.com/wallace-lim)
- [github.com/wallace-lim](https://github.com/wallace-lim)

## SKILLS

### Programming

- Python
- Java
- C
- SQL
- Javascript
- Golang

### Frameworks

- MERN Stack
- React
- Flask

### Platforms

- Amazon Web Services (AWS)

## EXPERIENCE

### Plaid

Software Engineer Intern May 2021 - Aug 2021

- Incoming Summer 2021 Internship

### Amazon

Software Developer Engineer Intern Jan 2021 - May 2021

- Team: Device Organization
- Incoming Winter 2021 Internship

### Amazon

Software Developer Engineer Intern May 2020 - Aug 2020

- Team: Annotation Management System
- Designed and implemented batch clustering to improve human auditor workflow on classification workflow
- Utilized a full AWS serverless stack to allow for fast horizontal scaling, enabling high availability at low latency
- Standardized data science python packages hosted on AWS ECS using Docker for Cosine Similarity, MinHash LSH

### UC Berkeley, Department of Statistics

STAT140 Tutor Aug 2020 - Dec 2020

- Hosting weekly office hours for 400+ students, preparing lesson plans and teaching materials to explain core probability concepts
- Designed course material to aid in student learning (i.e. practice questions, worksheets, powerpoint slides)

### Computer Science Mentor (CSM)

CS61C Senior Mentor Aug 2019 - Dec 2020

- Mentored a group of 5-6 Junior Mentors weekly discussing pedagogy tips and technical content for each week's material
- Taught groups of 4-5 students with use of mini-lectures and problem-based worksheets

## PROJECTS

### Voting System - <https://tinyurl.com/upe-voting>.

Python (Flask), AWS Amplify, Lambda, DynamoDB, S3

- Architected in-house voting system web app using researched-backed Singular Transferrable Voting replacing previous Rank Choice Voting to improve club officer elections
- Created easily scalable serverless Flask backend using AWS Lambda endpoints and Zappa package for endpoints

### Candidate Slackbot - [tinyurl.com/upe-slackbot](https://tinyurl.com/upe-slackbot)

Python (Flask), AWS Lambda

- Designed club's slack bot to remove the necessity of spreadsheets using Google Sheets API and Slack API hosted on Flask web server for candidate and officer to easily access and modify spreadsheet
- Develop CRON job to periodically check off candidates attending professional office hour for mock interviews and resume critiques

### Musique - [tinyurl.com/musique-app](https://tinyurl.com/musique-app)

MERN - MongoDB, Express, React, Node.js

- Web application allowing individuals to add desired songs to a shared queue using Spotify Web API to queue music
- Architected MongoDB database to maintain group song requests
- Developed a login feature for multiple parties to use concurrently

## ACTIVITIES

### Upsilon Pi Epsilon (CS Honor Society) - Nu Chapter

Software Development Officer Jan 2020 - Present

- Spearheaded a new club committee designed to help improve club workflow and removed spreadsheet maintenance overhead
- Organized 15+ individuals into software teams to help develop walkthrough software for popular UC Berkeley CS classes