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
- CS 162: Operating Systems
- EE 127: Optimization Modeling
- UGBA 104: Business Analytics

Completed
- STAT 140: Probability for Data Science
- CS 161: Computer Security
- CS 188: Artificial Intelligence
- CS 170: Efficient Algorithms (CS170)
- CS 70: Discrete Mathematics
- CS 61C: Machine Structures
- CS 61B: Data Structures & Algorithm
- DATA 100: Principles of Data Science

CONTACT

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SKILLS

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

Frameworks
- MERN Stack
- React

Platforms
- Amazon Web Services (AWS)

EXPERIENCE

Amazon
Software Developer Engineer Intern May 2020 - Aug 2020
- 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 - Present
- 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 - Present
- 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

UC Berkeley, EECS Department
CS61B Tutor Jun 2019 - May 2020
- Led interactive sections of 30+ students in hands-on programming and problem-based worksheets
- Teaching and creating material for topics including data structures, runtime analysis, graph algorithms, and polymorphism

PROJECTS

Candidate Slackbot - 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
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

Encrypted File Sharing System
Golang
- Designed and implemented end-to-end encrypted file sharing system using industry-standard encryption mechanism

Gitlet
Java
- Implemented a version control system that mimics features of Git
- Integrated serialization with Java stream libraries to maintain files, repositories and existing commit structures.

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