Jack Wang

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Work Experience

Amazon **2021 - Current**

Software Engineer – AWS Elastic Block Storage

- Designed and implemented an automated system in Java that drains and reingests data center storage racks that are physically moved, reducing failures from manual processes and coordination across infrastructure services.
- Reduced the time health metrics are emitted by 30% by utilizing caching to better detect failures and more quickly take action on the EBS storage servers in the fleet and increase durability to customers.
- Reduced the execution times of CLI commands by 93% by replacing remote API calls with local parsing of regional information using Python.

Amazon **2020**

Software Engineer Intern - AWS Elastic Block Storage

- Increased online availability of servers to customers by shipping a feature that allows configuration to repeat steps in the workflow to build software onto a server that might fail due to transient issues.

Education

University of California, Berkeley **2017 – 2021**

B.S. Electrical Engineering and Computer Science (EECS) *GPA 3.8*

Organizations: Eta Kappa Nu (EECS Honors Society), Computer Science Mentors (CSM)

Projects

Slack Backend

- Modeled a back-end application after Slack using Python, Flask, SQLAlchemy, and AWS S3 that implements features such as workspaces, authentication, images, channels, and threads.
- Tested backend endpoints with Postman.
- *https://github.com/jack-y-wang/slack-backend*

PomoTasks

- Created a to-do list web app using JavaScript and React that uses the pomodoro technique to help increase productivity with note taking and estimations of how many pomodoro sessions needed to complete a task.
- Provided access and synchronization of notes across devices with Google Authentication and Firebase.
- *https://pomotasks.netlify.app/*

Maze Search Traversals Visualizer

- Helped students, in a United Negro College Fund computer science program, understand search algorithms by creating a web app in JavaScript that visualizes BFS, DFS, and A* search algorithms on mazes and trees.
- https://github.com/jack-y-wang/mazeTraversals

Teaching

UC Berkeley College of Engineering **2019 - 2021**

Undergraduate Student Instructor – CS61B Data Structures

- Taught weekly 1-hour discussion sections specifically for students in the CS Scholars program, who come from under-resourced and low-opportunity communities, held office hours, and graded coursework and exams.
- Received a 4.3/5 rating from students on teaching effectiveness where an average rating among CS student instructors was a 3.8.

United Negro College Fund (UNCF) **2019**

Data Structures Instructor – CS Silicon Valley Academy

- Instructed and mentored 30 students from historically black colleges and universities (HBCUs) data structures algorithms in daily discussion sections as 1 of 6 student instructors.
- Created textbook content, problems, and projects for the course.