Jack Wang

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EDUCATION

University of California, Berkeley May 2021
B.S. in Electrical Engineering and Computer Science GPA 3.8
Relevant Coursework: Data Structures, Data Bases, Efficient Algorithms, Artificial Intelligence, Machine Learning, Data Science, Discrete Math & Probability Theory, Machine Structures, Teaching CS

INDUSTRY EXPERIENCE

Amazon | Software Development Engineering Intern, May – August '20

- Incoming Intern

SERES | Engineering Intern, May - August '18

- Worked on design validation testing of electric motors by designing components/assemblies of dyno motors and drivetrain dynos, documenting with engineering drawings, reaching out to vendors to find custom part-solutions, and assisted with release of documentation to suppliers.

TEACHING EXPERIENCE

UC Berkeley College of Engineering | Tutor, August '19 - Current

Taught labs/discussion sections, held office hours, and graded coursework for:

- CS 61B – Data Structures – Spring '20
- CS 61A – Structure and Interpretation of Computer Programs – Fall '19

UNCF | Instructor and Developer of CS Silicon Valley Academy, May - August '19

- Instructor of pilot program where I mentored and taught 30 students from historically black colleges and universities (HBCUs) data structures and algorithms by teaching in discussion sections, creating textbook content, problems, and solutions, reviewing student progress, and contributing to course design for future iterations.

ORGANIZATIONS

CS Mentors (CSM) | Senior Mentor, August '19 - Current

- Teach and provide mentorship in a weekly recitation section of five students. Provide support to new mentors/teachers in CSM with advice and pedagogy principles
- Taught for: CS 61A (Interpretation of Computer Programs), CS 88 (Computational Structures for Data Science)

Eta Kappa Nu (HKN) | Exec Member – Recording Secretary, May '19 – Current

- Help improve EECS undergraduate experience and community by holding discussions weekly, communicating with professors and the department, and tutoring 2 hours / week for EECS courses, and running review sessions

PROJECTS

Bear Maps | Java

- Programmed the back-end of a web mapping application of Berkeley, CA in Java featuring route mapping, autocomplete location search, and image rastering at varying zoom levels

Multi-Agent Pacman | Python

- Programmed a Pacman AI agent by implementing minimax with alpha-beta pruning and expectimax search to handle various opponents in traditional Pacman game

Maze Web App | JavaScript, HTML/CSS

- Created a web app to help students in the UNCF program visualize search algorithms by demonstrating BFS, DFS, and A* on mazes and on a tree and also see applications of graphs

SKILLS AND AWARDS

- **Skills**: Python, Java, C/C++, JavaScript, MATLAB
- **Dean's List** | semester GPA in top 10% (Spring 2019)
- **Eta Kappa Nu** | EECS Honors Society, Mu Chapter (Spring 2019)