

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 Science, Teaching CS, Discrete Math & Probability Theory, Artificial Intelligence, Machine Structures, Efficient Algorithms

INDUSTRY EXPERIENCE

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.

Karl Storz Imaging Inc | Mechanical Design Intern, June – August '16

- Improved user experience of endoscope products by designing focus knobs to be ergonomic and prototyping sheet metal camera control unit covers using SolidWorks

TEACHING EXPERIENCE

UC Berkeley College of Engineering | CS 61A Course Staff Tutor, August '19 - Current

- Teach 2 weekly sections, of 5 students, Python and programming fundamentals (recursion, trees, linked lists)
- Host office hours and responsible for logistical duties including grading and proctoring exams, and grading projects

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.

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

ORGANIZATIONS

CS Mentors | CS 88 Mentor, August '19 - Current

- Teach and mentor a weekly section of five students, Python and computational structures for data science to help with conceptual understanding

Eta Kappa Nu (HKN) | Activities Officer, May '19 – Current

- Help improve EECS undergraduate experience by organizing social activities for officers and members, tutoring 2 hours per week for EECS courses, and running review sessions

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)