JACK WANG

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EDUCATION

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

SKILLS

Programming | Python, Java, HTML/CSS, JavaScript, Matlab

EXPERIENCE Industry

SERES | Engineering Intern - *May – August '18*

- Assisted with 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 '18*

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

EXPERIENCE Academia

UNCF CS Silicon Valley Academy | Instructor - *May – August '19*

- Student instructor of UNCF's pilot Summer CS Silicon Valley 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.

CS 61A | Academic Intern - *January – May '19*

- Helped teach python, problem solving strategies, and concepts from class during lab section (1.5 hrs/week) and office hours (1 hr/week) for the introductory computer science course. Also offered 3 hours a week of 1-on-1 tutoring with students through CS 370.

ETA Kappa Nu (HKN) | Activities Officer - *May – present*

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

PROJECTS

Maze Web App | HTML/CSS, JavaScript | https://maze-traversal.herokuapp.com - *July '19*

- 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

Bear Maps | Java - *March '19*

- 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

Climate Stabilization App | MATLAB - *April '18*

- Programmed a MATLAB app that features climate stabilization wedges developed by Carbon Mitigation Initiative at Princeton which involved modeling differential equation of global mean CO2 & temperature increases and visualize carbon reduction via mitigation policies.

AWARDS

Dean's List | semester GPA in top 10% (Spring 2019)
Eta Kappa Nu | EECS Honors Society, Mu Chapter (Spring 2019)
Pi Tau Sigma | Mechanical Engineering honors Society, Pi Omega Chapter (Spring 2019)