MAE WANG

GRADUATION DATE: SPRING 2022
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WORK EXPERIENCE

Qualcomm Summer Intern (Web Developer/WLAN Tools Team)
San Jose Branch, May 18 - August 21, 2020

- Designed and deployed WLAN data files web service editor tool with ReactJS, Express, Python, and JSON
- Deployed WLAN HW memory usage interactive reporting tool using Sunburst UI with D3.js and CSV files
- Managed web app servers connected in multiple company geo-locations

EDUCATION

University of California, Berkeley (UC Berkeley)
B.A. in Computer Science, present
3.4 GPA

- Foundations of Computer Graphics and Imaging
- Machine Structures
- Efficient Algorithms and Intractable Problems
- Data Structures
- Linear Algebra and Differential Equations
- Discrete Mathematics and Probability Theory
- Adaptive Instruction Methods in Computer Science
- Structure and Interpretation of Computer Programs

PROJECTS

Computer Graphics

- Constructed a 2D vector-based rasterizer for SVG input files
- Implemented geometric 3D modeling with triangle meshes and mesh upsampling with loop subdivision
- Built 3D renderer with ray-scene intersection, acceleration structures, and physically-based lighting and materials

Web Development

- Implemented backend of "Google Maps" web mapping application using real-world mapping data and Java
- Created a visualization of restaurant ratings with AI and the Yelp academic dataset using Python
- Built a personal website with HTML, CSS, and the JavaScript library p5.js

iOS App Development

- Built a "Snapchat" app with cloud-based record of snaps using Swift and FireBase
- Constructed a beverage searcher app utilizing crowdsourcing and cloud using Swift and FireBase
- Implemented a cryptocurrency ticker from the Cryptonator RESTful API using Swift

AI Development

- Built an AI that solves puzzles, such as "8-puzzle problem", by finding the shortest possible solution using Java
- Developed a program to estimate the value of the percolation threshold via Monte Carlo simulation using Java
- Designed a 2D tile-based game that pseudorandomly generates worlds and has AI "chaser enemies" using Java

SKILLS

Languages:
Java, Python, JavaScript, C++, C, Swift, CSS, HTML 5, C#, SQL, Scheme

Programs and Tools:
Git/GitHub, Unix, Linux, Vim, React, JQuery, Xcode, Firebase, Unity3D

OBJECTIVE

College junior seeking software summer internship position. I will perform tasks in a professional setting with dignity, alacrity, and respect.