HAOSONG LI

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EDUCATION

Carnegie Mellon University December 2021
Master of Science in Electrical and Computer Engineering
The University of Texas at Austin August 2020
Bachelor of Science in Electrical and Computer Engineering; **GPA**: 3.7/4.0
Related Coursework: Algorithms, Software Engineering (Web Applications), Software Testing
Illinois Institute of Technology May 2018
Completed undergraduate coursework in Computer Engineering (Transfer to UT Austin); **GPA**: 3.92/4.0
Related Coursework: Object-Oriented Programming/Design I & II, Data Structures

WORK EXPERIENCE

Software Engineer Intern
ZTech, *Austin, TX* 05/2020-08/2020

- Built a React based website from scratch for a video editing application called Reelable
- Collaborated with three other interns to launch an end-to-end software marketing product integrated with Chatbots
- Managed and deployed Facebook ads with a monthly budget of $3,000
- Formulated Chatbot design and automated services and boosted lead generation by 10 times
- Steered a six-person engineering team following Agile values and applying scrum framework to manage tasks

PROJECTS

Research Match Website 09/2019-05/2020
Supervisor: Prof. Suzanne Barber, UT Austin

- Fulfilled full functionality and completed bug-fixing on a Flask based ResearchMatch website, used for matching students' interests with faculty's research project for ECE department at UT Austin
- Embedded matching algorithms on backend and optimized frontend filtering UI
- Obtained over 100 students and 20 faculty members as users with projects listed in two weeks

Internet Comic Database Website – UT Austin 02/2020-05/2020

- Created and crafted a clean-designed website with Angular framework, Bootstrap CSS
- Optimized and assessed whole website functionality using Protractor
- Directed a team of six to arrange meetings to keep up with schedule during pandemic situation

Embedded System Design Project – POV LED Spinning Display – UT Austin 10/2019-12/2019

- Devised a POV spinning LED display using C language code controlled by the Blynk App on smartphones through Wi-Fi
- Outlined the PCB board and evaluated while soldering all hardware parts including a TM4C123 microcontroller, 32 LEDs, a hall effect sensor, a buck converter, and a Wi-Fi module

Wireless Communication System Designs for IoT – Research Project 09/2019-12/2019
Supervisor: Prof. Danijela Cabric, University of California, Los Angeles

- Researched ways to enhance throughput and quality of service (QoS) in wireless communication systems
- Quantified maximum throughput of the system applying Water Filling Algorithm with MATLAB
- Authored and published paper "Resource Allocation Methods in IoT Systems Based on OFDMA"

EXTRACURRICULAR & ACADEMIC ACTIVITIES

JPMorgan Chase & Co. Software Engineering Virtual Experience Program Participant 07/2020

- Visualized stock price data to analyze when trading for stocks should occur
- Utilized Perspective open source code to create charts to display date feed for traders

Sanger Learning Center, UT Austin, *Academic Peer Tutor* 01/2019-05/2020

- Tutored more than 100 students and helped to solve mathematics problems
- Mentored over 50 students with peer academic advising on college life and courses

Academic Research Center, Illinois Institute of Technology, *Academic Peer Tutor* 01/2018-05/2018

- Fostered students' problem-solving skills involving Electrical and Computer Engineering courses

SKILLS

Programming Languages: Java, Python, C++, C, JavaScript, HTML/CSS, Node.js, jQuery, SQL, MATLAB
Frameworks: AngularJS, Flask, ExpressJS, ReactJS
Version Control: Git