Tianrui Li

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Education

Bachelor of Science in Computer Science May 2023
University of Florida, Gainesville, FL GPA: 4.0/4.0
Minors: Physics, Electrical Engineering
Relevant Coursework: Data Structures and Algorithms, Circuits 1, Programming Fundamentals 2, Applications of Discrete Structures

High School Advanced Honors Diploma
Palo Verde High School, Las Vegas, NV Unweighted GPA: 4.8/4.0
SAT: 1540 | ACT: 35 | SAT Math II: 800 | SAT Physics: 800 | SAT Chemistry: 800 | SAT U.S. History: 750

Technical Skills

Programming Languages: C++ (moderate), JavaScript (moderate, Java (moderate), Python (basic)
Libraries, Frameworks; Tools: Node.js (moderate), Express.js (moderate), SFML (basic), OpenCV (basic), Android Studio (basic); HTML + CSS (basic), Mongoose/MongoDB (basic), Git (basic), Blender (basic), Onshape (basic)
Languages: Mandarin (fluent/conversational), Japanese (basic)

- Gold Certificate for Level 1 of National Japanese Exam (2019)
- 2nd Place in the Level 3 Division of a regional Annual Japanese Speech Contest (2018)

Involvement

BookMark'd Backend Web Developer Oct. 2019 - Now

- Developing a progressive web app with one other developer using Node.js + Express.js and deployed through Heroku for the ambitious BookMark'd startup
- Responsible for maintaining databases of users and products, designing user authentication through sessions, cookies, and email verificaiton, and developing a chat system via Socket.IO, among others to build the server framework behind the web app
- Leveraged a variety of 3rd party APIs (Passport.js, Stripe, SendGrid, etc.)
- Assisted front-end developer with certain redesigns that more

Society of Asian Engineers and Scientists ENG Committee Member + Mentee

- Engages in a proactive community of similarly driven peers also pursuing engineering majors in volunteer and professional development activites
- Collaborates with SASE board members as part of Engineering New Generation (ENG) committee to help plan events such as GBMs as well as man them
    - During our temaki-zushi fundraiser held for SASE Spirit Week, we raised over $450

Programming Team Member Aug. 2019

- Engages in problem-solving through LeetCode and CodeForces question during weekly club practice sessions and own free time
- Studies more advanced computer science concepts related to competitive programming, such as tree structures and graph theory, in club lectures and on own time

Successful Transition and Enhanced Preparation for Undergraduates Program (STEPUP) Member

- Built connections and collaborated with 32 other selected peers on projects in a variety of engineering classes, developing technical skills in Blender, Onshape, and Arduino
- Developed a better understanding of an engineer's life at work by touring and listening to several engineering companies (Exatech, Arthrex) and corporate speakers

Projects

Minesweepers

- Final project of Prog. 2 course that uses SFML to make a single player version of Minesweepers with some debugging features and file loading
- Aim is to expand to a multiplayer version, using sockets and packets, as well as include additional features (e.g. the abilitiy to actually sweep mines) and my own graphics

Tic Tac Toe App

- Simple rendition of the Tic Tac Toe game made available in Android app format, plyable between two people on a single device, that I made to gain more experience in app development through Android Studio

Recognition

National Finalist for the U.S. National Chemistry Olympiad Competition, Nationwide (2017, 2019)
National Merit Scholar, Nationwide (2019)
Scholarships:Ronald McDonald House Charities of Greater Las Vegas Scholarship (2019), Palo Verde High School Career and Technical Scholarship (2019)