

## Tianrui Li

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### Education

#### Bachelor of Science in Computer Science

University of Florida, Gainesville, FL

Minors: Physics, Electrical Engineering

Relevant Coursework: Data Structures and Algorithms, Circuits 1, Programming Fundamentals 2, Applications of Discrete Structures

May 2023

GPA: 4.0/4.0

#### High School Advanced Honors Diploma

Palo Verde High School, Las Vegas, NV

May 2019

GPA: 4.0/4.0

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 verification, 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 redesigns that better suits client-side JS functionality

#### Society of Asian Engineers and Scientists ENG Committee Member + Mentee

Sept. 2019 - Now

- Engages in a proactive community of similarly driven peers also pursuing engineering majors in volunteer and professional development activities
- 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 - Now

- 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

June - Aug. 2019

- 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 ability 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, playable 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)