

Hannah S. Oh

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Education

University of California, Berkeley **Electrical Engineering and Computer Science, BS**

Aug 2020 – May 2023

Coursework: Data Structures, Linux SysAdmin Decal, Discrete Mathematics and Probability Theory, Linear Algebra and Differential Equations, Intro to CS, Designing Information Devices and Systems

Experience/Projects

Lisp Dialect Interpreter Nov 2020

- Wrote a recursive interpreter and tokenizer for a Lisp dialect
- Created the REPL as an evaluator for expressions
- Implemented tail recursion to optimize recursive functions

Autocorrected Typing Software Sept 2020

- Measures typing speed and accuracy
- Implemented autocorrect feature to correct user spelling mistakes
- Added multiplayer capabilities to race friends and professors

Ants: An Action Game Oct 2020

- Programmed an object-oriented tower defense game inspired by Plants vs. Zombies
- Created different classes of tower pieces using OOP and inheritance

Resistive/Capacitive Touchscreen June 2020

- Analyzed if touch occurred for capacitive touchscreen using charge sharing properties
- Used flexible resistive layer and PCB to analyze location of touch for resistive touchscreen

Color Organ Sept 2020

- Built high and low pass filters connected to LEDs that lit up for different frequencies

Leadership

Vice President OTTA United, a 501(c)(3) organization

August 2019 to December 2020 Sunnyvale, CA

- Ran an organization that provided after-school tutoring, volunteer services, and seminars
- Oversee execution goals in leadership, operations, advertising, and financial management
- Create and maintain organizational policy of officers, board members, staff, and volunteers

Property and Logistics Manager, Synthesizer and Electronics Leader Homestead HS Marching Band

June 2018 – Dec 2019 Cupertino, CA

- Organized schedules and delegated responsibility to students and parent volunteers
- Managed the sound system and resolved issues regarding unexpected outcomes
- Competed in Indianapolis (75th percentile, Natl.), Dayton OH (7th, Intl.), and Southern California (2nd, Rgnl.)

Awards

Presidential Scholars Program Nominee, Jan 2020 National Merit Scholarship, Feb 2020

The President's Volunteer Service Award, Nov 2019 FUHSD Community Service Award, May 2020

Skills

Technical: Python, Java, Lisp

Tools: Eclipse, Git, VSCode, Vim

Languages: English, Korean