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# HSIAO TUNG HO

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## EDUCATION

### University of Southern California

Los Angeles, CA

*Bachelor of Science in Computer Science and Engineering*

Expected May 2020

- GPA – 3.85
- Coursework – Discrete Mathematics, Data Structures and Object Oriented Design, Principles of Software Development, Embedded Systems, Digital Systems Design, Information Security

#### *Organizations*

- Makers – Computer Science and Electrical Engineering hobby club. My team and I are currently building a smart refrigerator that tracks your food quantity and spoilage. Each refrigerator shelf has weight sensors that track items removed, consumed, and added. A phone application interfaces the information gathered by hardware.

## EXPERIENCE

### California Academy of Sciences

June 2014 – May 2016

*Museum Guide and Designer*

- Led a four-person team to develop a new museum activity.
- Delivered speeches, presentations, and activities to guests.
- Oversaw and administered public events.

### Mission Economic Development Agency

June 2015 – August 2015

*Mission Techie Intern*

- Provided tech support services to low-income families, such as diagnosing and repairing malfunctioning devices ranging from computers and laptops to phones and tablets.
- Learned the IT essentials of hardware, software, and networking.

## PROJECTS

### BotBuilder

June 2017 – Present

- Chatbot creation platform. Users can build, save, and deploy their own chatbot using an online system. The chatbot, stored and represented as a directed graph, can store an endless number of pathways that can be explored through natural language processing and/or option buttons. The website features local authentication and graph interfaces.
- Node.js, Express, SQL, Microsoft LUIS/Bot Framework/Azure, vis.js

### Personal Website and Applications

August 2015 – Present

- One-page online portfolio that highlights my projects and serves as an access point to all personal games and art. Interactive games and art include classic games such as minesweeper to fractal animations.
- HTML5, CSS, Bootstrap, Java, JavaScript, jQuery, Processing, p5.js, p5.play

### Alarm Clock

January 2017 – May 2017

- Alarm clock that displays the day, date, time, inside temperature, and outside temperature. Both the date and time can be set, while the outside temperature requires a remote connection to a different temperature sensor.
- C (AVR Programming), Arduino, LCD Shield, MAX232 and Tri-State Buffer ICs, Thermometer Sensor

### Hackathons

March 2017 – Present

- TrojanHacks – Location-based Spotify playlist generator (PHP, Spotify API)
- LAHacks – Website that compiles and scores articles for their credibility (JavaScript, News API)

## SKILLS

C • C++ • Java • JavaScript • Python • HTML5 • CSS • Git  
Node.js • Express • Cloud Computing (Azure) • Microsoft Bot Framework, LUIS

## HONORS AND AWARDS

USC Viterbi Dean's List • QuestBridge Scholar • Dong Lieu Memorial Science Prize Recipient • National AP Scholar