Jeremy Ho

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Profile

Current EECS major at UC Berkeley. Born in Penang, Malaysia and raised in Singapore, Beijing, and Vancouver. Fluent in English and Chinese, proficient in Japanese. Avid cook, passionate about Chinese, Japanese, and Malaysian cuisine. Fan of video games, podcasts, trains, and all things tech.

Experience

SOFTWARE ENGINEER, MAKERLABS – SUMMER 2015, SPRING 2016, WINTER 2016

- Interned for 12 weeks at a MakerSpace in Vancouver, Canada
- Built a NodeJS WebApp that calculated path lengths of SVGs to estimate laser cut times
- Measured laser cutter motor movement speeds across different axes to accurately calculate cut and raster times for different materials
- Unit tested and debugged interactive map of warehouse, with pop-ups detailing item info
- Programmed flight simulation interface for 9DVR motion rig
- Created smartphone controlled, wifi-enabled servo motor

Education

UNIVERSITY OF CALIFORNIA, BERKELEY – ELECTRICAL ENGINEERING & COMPUTER SCIENCE, 2020

- Classes: CS 61A (Python); CS 61B (Data Structures w/ Java); Math 53 & 54 (Multivariable Calculus & Linear Algebra); EE16A & B (Electrical Engineering)
- Clubs: CalSTAR Rocketry Club; UAVs @ Berkeley Club; Video Game Music Analysis
- Hackathons: CalHacks (Webapp); ARHacks (Google Project Tango & Intel ReconJet)

ST. GEORGE'S SENIOR SCHOOL, VANCOUVER – HIGH SCHOOL DIPLOMA, 2016

- AP subject scores: Physics 1 & 2 (5); English Literature (5); Calculus BC (5); Japanese (4); Microeconomics (5); Macroeconomics (5); Chemistry (4); Computer Science (5). 4.0 GPA
- Summit Club (Hiking, Kayaking, Rock-Climbing); Chess Club; Maker Club (3D printing and design); Destination Imagination; Badminton; Soccer; Violin

Skills

- Programming/Languages: Java; JavaScript; Python; HTML; CSS; C++
- Web-app development: NodeJS; Bootstrap; Express; Mocha; Jade; Canvas API
- Office Tools: MS Office; Photoshop; Inkscape
- Operating Systems: Windows XP/7/8/10; Mac OS X; Ubuntu

Link to interactive warehouse map:

https://catalog-makerlabs.herokuapp.com

Link to MakerLabs WebApp:

http://www.makerlabs.com

Link to SVG (scalable vector graphics) path length calculator WebApp:

https://github.com/MakerLabsVan/Length_Calculator

I am highly familiar with Javascript, having previous created numerous webapps in hackathons and internships. I have previous experience with vector graphics, as I had designed a tool that took in an SVG file, parsed the vector information, and computed the total length of all lines in order to accurately predict laser cutting time. I also have experience with creating interactive maps, as I debugged and designed an interactive map of the MakerLabs warehouse/makerspace during my internship there. I believe my previous experience makes me a good fit for this project, and I hope to improve my skills as a software engineer by participating in this project.