Kelly He

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Education

Massachusetts Institute of Technology *Cambridge, MA | Sep 2018 - May 2022*

- B.S. in Electrical Engineering and Computer Science (Course 6-2)
- Relevant Courses: Algorithms, Discrete Math, Computation Structures, Signals and Systems, Intro to Machine Learning, Embedded Systems, Elements of Software Construction

Work Experience

Salesforce | Software Engineering Intern (remote) - Commerce Cloud *Burlington, MA | Jun - Aug 2020*

- Created a Google Assistant commerce application to create an enhanced and accessibility-friendly shopping experience
- Created the backend for frontend application and set up a GraphQL endpoint using JS, which resolved data from the commerce SDK and its APIs. Then collaborated with 2 other team members to integrate their product listings and details page functionalities
- Created the Google Assistant application using GCP's Dialogflow and webhooks, set up with node and express

Youth Global Network | Software Engineering Intern - Project-C *Sha Tin, Hong Kong | Jun - Aug 2019*

- Analyzed student data from a SQL database, calculated component statistics usage and project times in Python, and uploaded the data to another database using MongoDB
- Began creating a teacher reports page and visuals for the calculated statistics using React

HostaLabs | Software Engineering Extern *Cambridge, MA | Jan - Feb 2019*

- Compared the accuracy of the depth perception on cell phone cameras to Hosta's existing algorithm to help create interactive 3D models of spaces from images
- Improved the UI of the iOS application using Swift by adding a tab with a mock interactive 3D model

Projects

tiLED | Toy Product Design *Cambridge, MA | Feb - May 2019*

- Designed and manufactured a light up, wireless, and modular tile game from scratch in a team of 5
- Led the setup of the hardware / electrical components of the control box, tiles, and the communication between the tiles using wireless microcontrollers. Also coded 3 game modes in Arduino

playdate | HackMIT *Cambridge, MA | Sep 2019*

- Created a social web app that shows nearby friends' activity recommendations on a map. Users could create and join nearby public activities, which helps grow a sense of community and find new activities. I designed the "Feed" page using HTML, CSS, and Bootstrap

Activities and Leadership

MIT Campus Tour Guide *Cambridge, MA | Dec 2018 - Now*

- Manage groups of 1-50 people around campus, keeping them engaged with interesting facts while maintaining authority and order

Undergraduate Association: Innovation Team | Associate Member *Cambridge, MA | May 2020 - Now*

- Brainstorm creative solutions to help connect the MIT community while remote
- Helping create an MIT randomized video chatting platform similar to Omegle to encourage social interaction during quarantine

MIT Global Teaching Labs | Physics Teacher *Cremona, Italy | Jan 2019*

- Taught 10 classes of 15-20 high school juniors and seniors about various physics topics such as electric circuits, work and energy, heat and temperature, and electric forces and fields

MIT Solar Electric Vehicle Team | Software & Electrical Engineering Member *Cambridge, MA | Nov 2018 - May 2019*

- Experimented with and designed circuit boards for a telemetry box using Altium to help build a solar powered racing car

Additional Information

Skills and Languages

- Proficient: Python, Java, JavaScript, HTML/CSS, Git, LaTeX, Arduino, Material UI
- Familiar: React, TypeScript, C++, Swift, MongoDB, Altium, SQL

Other Activities and Interests

- Dance Troupe, First Generation Program, crocheting, ukulele, clarinet, sewing, photography, video games