Kelly He

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🎓 **Massachusetts Institute of Technology** | May 2022
Bachelor of Science in Electrical Engineering and Computer Science (Course 6-2)

Work Experience

Cogo Labs | Software Engineering Intern   *Cambridge, MA | Sep - Dec 2020*
- Analyzing trends in recruiting and hiring processes in order to provide an efficient sourcing strategy and platform for companies

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
- Utilized the backend for frontend pattern 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
- Integrated GCP's Dialogflow with the Google Assistant application using 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

Hosta Labs | Software Engineering Extern   *Cambridge, MA | Jan 2019*
- Compared the depth perception of phone cameras to the internal algorithm to help generate interactive 3D models from images
- Improved the UI of the iOS application using Swift by adding a tab with a mock interactive 3D model

Projects

kellyhe8.github.io | Personal Website   *Marlton, NJ | Aug 2020 - Present*
- Creating a personal website and blog in order to learn web development, React, Material UI, HTML, and CSS

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
- Set up the hardware components of the control box, tiles, and the communication between the tiles using wireless microcontrollers, on which I 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

6.009 - Fundamentals of Programming | Lab Assistant   *Cambridge, MA | Aug 2020 - Present*
- Assisted students with Python lab assignments and administered checkoffs, which ensures their understanding of the material
- Previewed lab assignments and homework before their release to students and provided feedback

MIT Campus Tour Guide   *Cambridge, MA | Dec 2018 - Present*
- Manage groups of 1-50 people around campus, keeping them engaged with interesting facts while maintaining authority and order

MIT Global Teaching Labs | Physics Teacher   *Cremona, Italy | Jan 2019*
- Taught 10 classes of 15-20 high schoolers about 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

Skills

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