KELLY HE

STUDENT & SOFTWARE ENGINEER

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in kellhe

🌐 kellyhe8.github.io

EDUCATION

Massachusetts Institute of Technology
May 2022
Bachelor of Science in Electrical Engineering and Computer Science
Technical GPA: 4.7 / 5.0

SKILLS

Programming Languages
Python, JavaScript, Java, C++, HTML/CSS

Tools / Frameworks
React, SQL, Material UI, Git, Node.js

ACTIVITIES & LEADERSHIP

Fundamentals of Programming Lab Assistant
Aug 2020 – Present

IEEE Core: Faculty-Student Relations Chair
Sep 2020 – Present

UA Innovation Member
Mar 2020 – Present

MIT Campus Tour Guide
Dec 2018 – Present

Physics Teacher: MIT Global Teaching Labs
Jan 2020

MIT Solar Electric Vehicle Team
Nov 2018 – May 2019

WORK EXPERIENCE

Cogo Labs
Software Engineering Intern | Sep – Dec 2020
- Finding viable small cap companies in which to invest and acquire
- Identified successful and unsuccessful company traits by analyzing clickstream data sources using SQL, Python, and Jupyter Notebooks

Salesforce
Software Engineering Intern | Jun – Aug 2020
- Created a voice commerce experience by integrating Google Assistant with our e-commerce platform
- Set a precedence for modular front end development by using the back end for front end (BFF) pattern
- Collaborated with 2 peers to integrate product details and listing functions
- Enabled fast and efficient queries by producing a GraphQL endpoint that resolved data from the commerce SDK and its APIs using JavaScript
- Set up webhooks to integrate GCP's Dialogflow with the Google Assistant application using Node and Express

Youth Global Network: Project-C
Software Engineering Intern | Jun – Aug 2019
- Compiled meaningful data and statistics into MongoDB for teachers to learn about their students' application progress, such as component usage, time spent, and tutorial progress from a SQL database
- Began creating a teacher reports page and data visualizations for the calculated statistics using React

Hosta Labs
Software Engineering Extern | Jan 2019
- Helped improve the depth perception performance by comparing the built-in functions of phone cameras and the internal algorithm
- Created a tab with a mock interactive 3D model in the iOS application using Swift

PROJECTS

kellyhe8.github.io
Personal Website | Aug 2020 - Present
- Designing a personalized space online for my thoughts and information, using React and Material UI (check it out!)

tiLED
Toy Product Design | Feb – May 2019
- Designed and manufactured light up, wireless, and modular tiles in a team of 5
- Led wireless hardware communication set up and coded 3 game modes in Arduino

playdate
HackMIT | Sep 2019
- Created a web app that shows nearby recommended activities in real time
- Used the Google Maps API to display public activities that users could join or create in order to meet new people and make new friends
- Personally designed the "Feed" page using HTML/CSS, and bootstrap