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Education

Massachusetts Institute of Technology (MIT) (GPA: 4.7/5.0) *Class of 2021*

Candidate for a Bachelor of Science degree in Computer Science and Engineering

Relevant coursework: Machine Learning, Analysis of Algorithms, Systems Engineering, Advances in Computer Vision, Software Construction, Discrete Mathematics

Experience

Cambridge Blockchain **Cambridge, MA**

Software Engineering Intern June 2019 - February 2020

- Designed and extended microservices components for enterprise data security and privacy software
- Compartmentalized graph database structure to support multiple admin roles and performance testing
- Deployed and tested software stack with Docker Swarm and Kubernetes

MIT Election Data Science Lab **Cambridge, MA**

Software Developer Intern January 2019 - May 2019

- Assisted with web scrapping election science data and web archiving of relevant state election websites
- Collected and analyzed indicator data to improve accuracy of the Elections Performance Index
- Data visualization of state voting patterns and ballots to identify potential instances of election fraud

MIT Department of Material Science **Cambridge, MA**

Undergraduate Researcher May 2018 - August 2018

- Conducted experiments, collected, analyzed, and presented data pertaining to aluminum-sulfur batteries
- Extensive glovebox experience from making both Swagelok and coin cell batteries
- Suggested potential approaches and strategies to improve battery lifespan and capacity

Leadership and Volunteering

Code for Good **Cambridge, MA**

Web App Developer October 2018 - January 2019

- Contributed to backend of a web application to handle approval of development funding for Accion
- Semi-automated previously manual funding approval process and database updates

Engineers Without Borders **Cambridge, MA**

Team Member October 2017 - May 2018

- Worked with a team of fellow undergraduates to find solutions to clean water problems in Tanzania
- Researched potential avenues of approach to sustainable water collection and storage in coordination with professional Boston EWB chapter to organize assessment trip

Skills

Programming: Python, Golang, Java (Other: C#, C++, JavaScript, HTML, CSS)
Web Development: React, Node.js, Express, Firebase
Database: Graph, SQL
Language: English, French, Mandarin
Software: Docker, Kubernetes, Unity

Projects

NCSL Indicator Scrapping: Collecting data from NCSL related to Election Performance Index
Color Inference: Bayesian computational model for inferring color names from RGB values
Haiku Detection Bot: Reddit bot for detecting and recording haikus using the PRAW API