Luke Logan

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https://lukemartinlogan.github.io/professional-website

EDUCATION

ILLINOIS INSTITUTE OF TECHNOLOGY Chicago, IL
Coterminal Bachelor of Science in Applied Mathematics and Master of Computer Science   Spring 2020
Overall GPA: 3.76   Spring 2020

SKILLS

Programming Languages:	C/C++, Python, Bash, Java, R, SQL, Android, Matlab, HTML/CSS
Software:	Windows, Linux (Ubuntu/Fedora), Microsoft Word/Powerpoint, git

WORK / PROJECTS

HCompress   Summer 2019
- Designed/implemented a dynamic compression system in C++
- Integrated this system into tool that buffers data in distributed storage systems
- Improved performance of buffering tool by 700%
- Co-author to publication in IPDPS'20

The BOSSA Platform   2018-2020
- Improved the algorithm for estimating the position of a phone in a multi-story building
- Created an Android app to poll bluetooth beacons and record their signal strengths
- Created Python scripts to download and analyze the bluetooth signals (SciPy, Pandas)
- Algorithm predicts the floor the user is on with 100% accuracy
- Main author to publication and presenter in IEEE CQR'20

Pothole Detectives   Spring 2019
- Designed/implemented an algorithm to find the best route to fill potholes in Chicago
- Used OpenStreetMap to create a graph of Chicago
- Used Python to find the route using reports from the Chicago Data Portal
- Presented at ChiHackNight

Teaching Assistant for Computer Organization/Assembly Language   Spring 2017
- Supervised labs and held office hours
- Graded lab assignments

AWARDS

- Dean's List at IIT   2016-2020
- Eagle Scout   2016

PERSONAL

- Handbell Choir for St Andrew United Methodist Church (UMC)   2008-2019
- Assistant leader for confirmation class at St. Andrew UMC   2016
- Managed the construction of fence for local forest preserve   2016