

Kye Burchard

kyeb@mit.edu | github.com/kyeb | (406) 217-6239 | kyeburchard.com

EDUCATION

MIT | SB ELECTRICAL ENGINEERING AND COMPUTER SCIENCE
GPA: 4.9

2017 - 2021

Great Falls High School | GREAT FALLS, MONTANA
GPA: 4.0 | Rank: 1/298 | ACT: 35 | National Merit Scholar

2013 - 2017

EXPERIENCE

Microsoft Garage | SOFTWARE ENGINEERING INTERN

May - Aug. 2019

- Summer 2019 intern at Microsoft Garage in Redmond

MIT Media Lab | UNDERGRADUATE RESEARCHER

May - Aug. 2018

- Designed an algorithm to improve accuracy of location detection for Rhythm Badges project
- Developed a full data processing pipeline, from raw output to analyzable dataframes, leveraging multi-core processing for efficiency
- Coordinated compliance monitoring for 6 week, 80 person experiment

HackMIT | LOGISTICS HEAD 2019, DEV & CORPORATE RELATIONS 2018

April 2018 - Present

- Contributed to development of 2018 HackMIT splash page, sponsor portal, Blueprint 2019 splash page
- Secured \$25,000+ in sponsorship funding for HackMIT and TechX
- Supervised 100 mentors, 50 volunteers, hosting for 300 hackers, WiFi, and packages for a 1,200 person hackathon

Maseeh Hall Executive Council | PRESIDENT 2019, TREASURER 2018, WEBTECH CHAIR Jan. 2018 - Present

- Served as primary interface between the largest dorm on campus and administration
- Led Maseeh Hall in reviving various clubs and committees, resulting in a 20% improvement in retention
- Developed new system to manage allocation, distribution, reimbursements, etc. for a \$150k budget

PROJECTS

StreetSmarts | C++, PYTHON, SQL, MULTIPLEXING

lrylander.github.io/StreetSmarts

A smart street lamp system for emergency responders, leveraging real-time optimal routing, cloud-based synchronization, and voice activation. Final project for 6.08

HackMIT/Blueprint Homepages | HTML, CSS/SASS, GULP

hackmit.org, blueprint.hackmit.org

Self-taught HTML/CSS to contribute to the development of the HackMIT 2018 and Blueprint 2019 splash pages, the landing site for MIT's largest hackathon and high school learnathon/hackathon

COURSEWORK

Fall 2019

6.172 Performance Engineering, 6.828 Operating Systems

Spring 2019

6.033 Computer Systems Engineering, 6.002 Circuits, 6.036 Machine Learning

2018

6.004 Computation Structures, 6.08 Intro to Embedded Systems, 6.006 Intro to Algorithms

SKILLS

ADVANCED

Python, Linux

KNOWLEDGEABLE

HTML/CSS, C++, Git, \LaTeX , Bluespec SystemVerilog, Vim, Pandas

EXPLORING

Java, Bash, React Native, nginx, JavaScript, Golang