Kye Burchard

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

EDUCATION

MIT | SB Electrical Engineering and Computer Science   2017 - 2021
GPA: 5.0

GREAT FALLS HIGH SCHOOL   ACT: 35
GPA: 4.0 | Rank: 1/298

WORK EXPERIENCE

MIT MEDIA LAB | Undergraduate Researcher   Summer 2018
- Designed an algorithm to improve accuracy of location detection for the 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 | DevOps, Corporate Relations, Logistics   May 2018 – Present
- Contributed to the development of the 2018 HackMIT website and sponsor portal
- Secured thousands in sponsorship funding for HackMIT and TechX
- Point person for mentors, volunteers, hosting, WiFi, and packages for a 1,000+ person hackathon

MASEEH HALL EXECUTIVE COUNCIL | Treasurer   Jan. 2018 – Present
- Managed allocation, distribution, reimbursements, etc. for a $75k+ budget
- Developed new budgeting system to continuously, accurately, and quickly track dorm cash flow

POLICY AND PARLIAMENTARY DEBATE   Sept. 2013 – Present
- 1st place at three statewide meets in 2016-17 season
- Research, adaptable/critical thinking, and public speaking experience

TECHNOLOGIES

Advanced	Python, Linux
Knowledgeable	HTML/CSS, C++, JavaScript, Bash, Git
Exploring	Java, TypeScript, Ruby, nginx, Golang

PROJECTS

STREETSMARTS | C++, Python, MySQL, 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 HOMEPAGE | HTML, Sass, Gulp, JavaScript   hackmit.org
Self-taught HTML/CSS to contribute to the development of the HackMIT 2018 splash page, a landing site for MIT's largest hackathon

COURSEWORK

FALL 2018 | Computation Structures, Intro to Algorithms, Math for CS, Differential Equations

SPRING 2018 | Fundamentals of Programming, Intro to Interconnected Embedded Systems

JAN. 2018 | Programming for the Puzzled, Intro to Python, Artificial General Intelligence

FALL 2017 Multivariable Calculus, Principles of Macroeconomics