

# Kye Burchard

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## EDUCATION

MIT | SB ELECTRICAL ENGINEERING AND COMPUTER SCIENCE  
GPA: 4.9

2017 - 2021

## EXPERIENCE

Stripe | SOFTWARE ENGINEERING INTERN

May - Aug. 2020

- Building infrastructure to improve performance of the Stripe dashboard, a massive React/Redux app

web.lab | OPERATIONS CHAIR

Jan. 2020

- Coordinated logistics, course staff, and delivered 2 lectures for 200 person IAP class

Microsoft Garage | SOFTWARE ENGINEERING INTERN

May - Aug. 2019

- Designed and implemented a modular, scalable data architecture for an independent intern project
- Facilitated communication across 4 disparate dev teams to produce a working prototype

MIT Media Lab | UNDERGRADUATE RESEARCHER

May - Aug. 2018

- Designed algorithm and data pipeline to improve location detection for Rhythm Badges project

HackMIT | LOGISTICS HEAD 2019, DEV & CORPORATE RELATIONS 2018

April 2018 - Sept. 2019

- Heading up a 12-person logistics team to plan and execute MIT's largest hackathon
- Designed layouts, schedules, and staffing for a 1,200-person event over 3 days

Maseeh Hall | PRESIDENT 2019, TREASURER 2018, WEBTECH CHAIR 2018-2020

Jan. 2018 - May 2020

- Led largest dorm at MIT in reviving clubs and committees, resulting in a 20% improvement in retention

### Other

- **CLICK** Startup focusing on empowering influencers to be more productive
- **SIPB** Contributing member to MIT's volunteer student computing group
- **6.08** Lab assistant for Intro to EECS via Interconnected Embedded Systems

## PROJECTS

Politichat | REACT, EXPRESS, SOCKET.IO, JITSI

politi.chat

Startup helping campaigns in the age of COVID-19 with a replacement for 1-on-1 conversations with candidates.

Project for CS91r at Harvard and part of the HCS Builders Incubation Program during summer 2020.

StreetSmarts | C++, PYTHON, SQL

lrylander.github.io/StreetSmarts

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

## COURSEWORK

Spring 2020 6.858 Computer Security, 18.05 Probability & Statistics, CS91r Political Tech (Harvard)

Fall 2019 6.172 Performance Engineering, 6.034 Artificial Intelligence, 18.06 Linear Algebra

Spring 2019 6.033 Computer Systems Engineering, 6.002 Circuits, 6.036 Machine Learning

## SKILLS

ADVANCED

Python, Linux, JavaScript, C

KNOWLEDGEABLE

React, Typescript, HTML/CSS, C++, Git, L<sup>A</sup>T<sub>E</sub>X, C#, Vim

EXPLORING

Ruby, Rust, Bash, Redux