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### **EDUCATION**

# MIT | SB ELECTRICAL ENGINEERING AND COMPUTER SCIENCE GPA: 5.0

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

#### Overcooked FPGA | SystemVerilog, C++, Python

github.com/kyeb/overcooked-fpga

An online-multiplayer implementation of the game Overcooked, implemented entirely in hardware. Designed & implemented protocol to synchronize game state between FPGAs over the internet in real time.

#### 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.

## Coursework

Fall 2020 6.111 Digital Systems Lab, 6.837 Graphics, 6.S081 Operating Systems, 6.S079 Quantum Circuits

Spring 2020
Fall 2019
Spring 2019
6.858 Computer Security, 18.05 Probability & Statistics, CS91r Political Tech (Harvard)
6.172 Performance Engineering, 6.034 Artificial Intellligence, 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, LATEX, C#, Vim

EXPLORING Ruby, Rust, Bash, Redux