

## EDUCATION

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### Massachusetts Institute of Technology

*B.S in Electrical Engineering and Computer Science*

Cambridge, MA

*September 2015 – June 2019*

Relevant Coursework: Operating Systems, Performance Engineering, Computer System Engineering, Computer Architecture, Elements of Software Construction, Circuits & Electronics, Signals and Systems, Algorithms, Machine Learning

## EXPERIENCE

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### Twitch/AWS

*Software Engineer*

San Francisco, CA

*October 2019 - Present*

- Changing how Twitch/Amazon Interactive Video Service (IVS) replicates live video globally by leading and building the infrastructure needed to request smarter replication paths on video segment cache misses.
- Improved insight to the Twitch/IVS CDN by developing a Tier-1 system that collects and aggregates network data from our globally connected PoPs, leading to more accurate simulations of network behavior.
- Expanded the reach of live video in India by integrating our infrastructure to 3rd party CDNs for last mile delivery.
- Prevented billing and metric failures to IVS customers by leading the design and development of end to end tests that push video metadata through the IVS data pipeline and tests that validate its correctness based on collaboration with different teams.
- Improved performance, scalability, and reduced operational burden of a critical system that aggregates BGP data by migrating the system over to AWS EC2, building an entirely new deployment pipeline, and creating new dashboards and metrics.

### MIT CSAIL

*Undergraduate Researcher*

Cambridge, MA

*February 2019 - June 2019*

- Built and transformed a sequentially stepped drone delivery simulation into a distributed stepped simulation in order to evaluate the challenges associated with turning sequential programs into distributed programs.

### Twitch

*Software Engineer Extern*

San Francisco, CA

*January 2019*

- Added security focused functionality to Twitch's Webhook API, which connects millions of user subscriptions to Twitch's streamers and events a day.

### Goldman Sachs

*Engineering Summer Analyst*

New York, NY

*May 2018 - August 2018*

- Re-engineered the whole loan trade booking system by utilizing a micro-service web architecture in place of monolithic process.

### Facebook

*Software Engineer Intern*

Menlo Park, CA

*May 2017 - August 2017*

- Improved ease of debugging for developers that utilize an internal framework that extends Litho by building a logging tool and react-based application that provides detailed information of recurring operations.

### Facebook

*Software Engineer Intern*

Menlo Park, CA

*June 2016 - August 2016*

- Designed and developed an Android application with a small team that allows users to sell and view personal items posted by their friends, including a newsfeed page that ranks popular items.

## PROJECTS

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### Reminsice

*Machine Learning Greylock Hackfest App*

2017

- Incorporated Stanford's NLP software to detect memorable conversations between friends on WhatsApp.
- Presented final Android application to a panel of judges from Docker Inc.

## TECHNOLOGIES

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**Programming Languages:** Go, Python, C, Java

**Tools:** Git, Terraform, AWS, Unix/Linux, Android