

## EDUCATION

### NORTHEASTERN UNIVERSITY | CANDIDATE FOR COMBINED BS/MS IN COMPUTER ENGINEERING

**GPA:** 3.94 | **Graduation Date:** May 2019

**Honors:** University Scholar (Top 1% - Full Scholarship) | Gordon CenSISS Scholar | Dean's List | National Merit Scholar

**Activities:** Honors Ambassador | Husky Ambassador | First Year Mentor - College of Engineering  
NU Symphony Orchestra | Eta Kappa Nu | Tau Beta Pi

## EXPERIENCE

### TWO SIGMA | INCOMING SOFTWARE ENGINEERING INTERN

May '17 - Aug '17

### ROBINHOOD | INCOMING SOFTWARE ENGINEERING INTERN

Jan '17 - May '17

### DROPBOX | SOFTWARE ENGINEERING INTERN

Jun '17 - Sep '17

*Python, Typescript, React, mypy, Bazel*

- Built folder level settings for Viewer Info in Python, revising sharing logic and permissions
- Used Typescript/React to redesign sharing modal to handle new settings

### SNAPCHAT | SOFTWARE ENGINEERING INTERN

Mar '17 - Jun '17

*Python, Typescript, Appengine, Flask, React, Redux*

- Led the design and implementation of a content management system for Snap's support sites
- Hosted application on AppEngine built with Flask and React/Redux

### GOOGLE | SOFTWARE ENGINEERING INTERN

Jan '17 - Mar '17

*C++, gTest, gRPC, Protobuf*

- Used C++, gRPC, and Protobufs, to add packet captures and traceroutes to network tool
- Augmented packet capture/traceroute functionality with custom capture logic and metadata

### APPLE | SOFTWARE ENGINEERING CO-OP

Jan '16 - Aug '16

*C++, Scala, Matlab, OpenCV, gTest, CMake, Akka-Http, Git*

- Led project to design new computer vision algorithms to assess Apple Maps quality
- Used Matlab and C++/OpenCV to design and implement a modular toolkit for computer vision tasks
- Built web service with Scala/Akka-http documented with Swagger to expose C++ algorithms

### TEXTRON SYSTEMS | SYSTEMS ENGINEERING INTERN

Jun '15 - Aug '15

*Matlab, Caffe*

- Used MATLAB to implement a Feed Forward and Convolutional Neural Network from scratch
- Classified images from data set of 18,000+ images into 20 classes with 98% accuracy for target detection

### SICA LAB | RESEARCH ASSISTANT

Oct '14 - Aug '15

*C++, C, Matlab, Mex*

- Synchronized C++/C functions with MATLAB using the Mex interface to increase performance
- Wrote MATLAB scripts to automate data collection and analysis for radar calibration

## PROJECTS

### NORTHEASTERN SCHEDULER

*Python, Flask, PostgreSQL, Swagger*

Scraped class schedules to provide API for filtering and ranking course information

### RUBIK'S CUBE ROBOT

*Python, C, Arduino, OpenCV, Solidworks*

Developed 4-arm control system with custom 3D printed hardware to solve Rubik's cube in 30 seconds

## SKILLS

### LANGUAGES:

- Python, C++, Typescript, MATLAB
- Familiar with Java, C, HTML, CSS

### TECHNOLOGIES:

- Web: Flask, React, Redux
- Databases: PostgreSQL, Google Datastore
- Other: OpenCV, gRPC, Bazel, Git, Bash