# Chenyang (Eric) Liu https://chy.io

# **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

Jun '18 - Sep '18

# **ROBINHOOD** | SOFTWARE ENGINEERING INTERN

Jan '18 - May '18

# **DROPBOX** | Software Engineering Intern

Jun '17 - Sep '17

Python, Typescript, React, mypy, Bazel

- Built folder level settings for Viewer Info feature with 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 -

# SKILLS

#### **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

#### **LANGUAGES:**

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

#### **TECHNOLOGIES:**

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