Chenyang (Eric) Liu
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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

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, 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