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

ericliuche@gmail.com ✉
github.com/ericliuche ⬡
linkedin.com/in/ericliuche ▯

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 viewer info settings for folders in Python, handling propagation logic and modifying sharing logic/permissions
- Used Typescript and React to redesign sharing modal for handling 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 capture and traceroute functionality 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 new modular toolkit
- 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++ and 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 using 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