

Education

Northeastern University | Candidate for Combined BS/MS in Computer Engineering

GPA: 3.95 | **Graduation Date:** May 2019

Honors: University Scholar (Top 1% - Full Merit Scholarship) | National Merit Scholar

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

Experience

Two Sigma | Software Engineering Intern

Jun '18 - Aug '18

Python, Pandas, NumPy

- Quantitative Application Engineering, working on portfolio simulation and optimization

Robinhood | Software Engineering Intern

Jan '18 - May '18

Golang, Python, Django, PostgreSQL, Redis, FIX

- Persisted in-memory order queuer with PostgreSQL allowing schedule agnostic orders and increased scalability
- Built cryptocurrency market data service and implemented check-pointing for options market data
- Build models, APIs, wallet generation, and withdrawal generation for cryptocurrency custody solution

Dropbox | Software Engineering Intern

Jun '17 - Sep '17

Python, Typescript, React, mypy, Bazel

- Implemented back-end permissions logic for Viewer Info feature active for any shared file on Dropbox
- Revamped sharing modals by building out folder level settings

Snap Inc. | Software Engineering Intern

Mar '17 - Jun '17

Python, Typescript, Flask, React, Redux, AppEngine

- Rewrote backend for Snap's content management system and migrated existing data to new models on AppEngine
- Modernized frontend user interface and on-boarded internal customers to new tool

Google | Software Engineering Intern

Jan '17 - Mar '17

C++, gRPC, Protobuf, Bazel

- Augmented network anomaly detection tool with packet capture and traceroute functionality
- Built command line interface allowing users to view results for any specified request between Google's servers

Apple | Software Engineering Co-op

Jan '16 - Aug '16

C++, Scala, Matlab, OpenCV, Akka-Http

- Developed computer vision toolkit to compare and extract vector features from Apple Maps screenshots
- Built web API for implemented algorithms to automatically detect UI regressions between releases

Textron Systems | Systems Engineering Intern

Jun '15 - Aug '15

MATLAB

- Implemented a Convolutional Neural Network from scratch to classify images for target detection and classification

Skills

Languages Python, Go, C++ *Familiar with C, Typescript, MATLAB, Java*

Web Flask, Django, React, Redux

Libraries OpenCV, NumPy, Pandas, gRPC

Databases PostgreSQL, Redis, Google Datastore

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