

## Education

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**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

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**Two Sigma** | Software Engineering Intern

Jun '18 - Aug '18

*Python, Pandas, NumPy*

- Extended popular portfolio simulation tool by tripling maximum simulation length, the longest at Two Sigma by far
- Integrated new dataset by investigating and mitigating underlying data differences and flaws
- Minimized quantitative differences to existing simulations through regressions and communication with modelers

**Robinhood** | Software Engineering Intern

Jan '18 - May '18

*Go, 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
- Built 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 permissions logic for feature that allows users of any shared file to see who else is currently viewing
- Revamped sharing modals by building out privacy settings for folders

**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

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**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

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**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

**Northeastern Scheduler**

*Python, Flask, PostgreSQL, Swagger*

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