

## EDUCATION

**Northwestern University | GPA: 3.81/4.00** June 2019  
B.S. Computer Science & Economics  
Kellogg Certificate Program in Managerial Analytics  
Relevant Coursework: • Artificial Intelligence • Data Structures & Data Management • Machine Learning • Databases • Programming Languages • Deterministic Models & Optimization • Econometrics

## SKILLS

### TECHNICAL LANGUAGES

Proficient: Python, Javascript (React, Redux), HTML, CSS  
Familiar: C++, Java, Swift, Matlab

### MISC.

Pandas, NumPy, Tensorflow  
Redux, Git, Unix, Linux

### NATURAL LANGUAGES

English  
Cantonese  
Mandarin

## WORK EXPERIENCE

### Goldman Sachs

*Software Engineering Intern: (Finance & Risk Engineering Team)*

Jersey City, NJ  
June 2018 to August 2018

- Built out a complete financial analytics dashboard web application for members of senior management, including Goldman's CFO.
- Constructed entire frontend (React/Redux), along with API calls, entitlement checks, and tableau analytics & chart generation to deliver 50+ different daily & historical financial metrics and reports across all divisions in the firm.

### Argonne National Laboratory

*Machine Learning Research Intern*

Lemont, IL  
June 2017 to August 2017

- Assembled and applied multiple machine learning algorithms to characterize problem features associated with errors in linearizations of electric power flow equations under mentorship of Dr. Daniel Molzahn.
- Developed a neural network, using Python and Tensorflow, to predict optimal power generation and line flows, with under 1% error; Generated and compiled the datasets using IEEE test cases on Matlab and MatPower.

### PNT Financial

*Software Engineering Intern*

Chicago, IL  
June 2016 to September 2016

- Spearheaded project for optimizing a trade put in production; Collaborated with traders daily to integrate trading logic.
- Performed complex analysis of large time-series data sets to design algorithms on Python identifying key patterns & impacts of economic releases for 100+ foreign exchange securities.
- Wrote 500+ lines of code in bug fixes & integral features for PNT's proprietary back-testing framework used to test firm's high & low frequency trading strategies.
- Automated entire firm's bookkeeping process by developing two programs to parse over 1300 brokerage PDFs daily and format extracted data into Excel; Enhanced efficiency of 25 hr bookkeeping process to under 10 min.

## PROJECTS

### Bot It: (Best Overall Underclassman Project at IEEE Project Showcase)

- Built bot on Python and Django to automate process of purchasing highly demanded, limited release sneakers.
- Utilized external Captcha token generation to bypass Captcha, jump query, and add items to cart, bolstering the probability of successfully purchasing limited sneakers.
- Pitched idea to *The Garage*, a startup incubator at Northwestern, and was accepted to be a resident team for spring quarter.

### Gordon: Virtual Recipe Assistant

- Engineered, with team of 3, a voice activated recipe assistant using Python and Google speech recognition software.
- Employs knowledge base of 100k+ ingredients, measurements, tools, & preparations to break down any online recipe, analyze speech commands to guide user through steps, make ingredient substitutions, and anticipate & answer questions.

## LEADERSHIP & ACTIVITIES

### HackNorthwestern · *President*

March 2018 to Current

- Lead 15-person team organizing school-wide, guided tech tutorials w/ 50+ weekly attendees to mentor and foster a CS community.
- Established the first school-wide Puzzle Hunt event, attracting over 75 participants to solve logic puzzles and compete for prizes.

### NU Space Technology and Rocketry Society (NUStars) · *Project Manager: NSET*

March 2016 to June 2017

- Started the Near Space Exploration Team (NSET), overseeing all aspects of research, development, and recruitment.
- Engineered high-altitude balloons to conduct scientific experiments at 100,000+ ft altitude, completing 3 successful launches

## ADDITIONAL

### Awards

7x Dean's List Recipient, Communications Award Winner (NU Design Expo), Best Overall Underclassman Project (IEEE Project Showcase)

### Interests

Youtube vlogs; Analyzing lyrics on RapGenius; Running my dog's instagram; Malcolm Gladwell; Michael Lewis; Basketball & Running