

## Education

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### University of Pennsylvania

BSE in Computer Science, Minor Engineering Entrepreneurship

Expected May 2020

- Cum. GPA: 4.00/4.00, Dean's List 2016-2018
- Extracurriculars: Penn Electric Racing, Club Ultimate Frisbee

### Columbia University Science Honors Program

- Selected for program for high school students with a strong interest in science and mathematics
- Relevant Coursework: Java Programming, Quantum Mechanics, Nanotechnology

## Experience

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**NVIDIA** | Software Engineering Intern

May 2018 – Present

- Designed and implemented centralized dashboard for facilitating developer, SRE, and PM interactions with NVIDIA GPU Cloud CI/CD pipelines
- Wrote and took design document through design review process for feedback and approval
- Implemented platform using ELK, maintained user and repair documentation

**CIS 121 (Data Structures and Algorithms)** | Teaching Assistant

Jan 2018 – Present

- Taught a weekly recitation to reinforce material learned in lecture and held review sessions for exams
- Held weekly office hours to help students with theory and programming questions
- Graded homework and exams and ran code reviews

**BusRight** | Co-founder

Jan 2017 – Present

- Lead iOS and web app development with the aim of providing data analytics transit operators, increasing school bus efficiency, and offering services like tracking for parents and students
- Built backend REST API, integrating OpenStreetMaps and GraphHopper for route optimizations

**Penn Electric Racing** | Software Sub-team

Sep 2016 – Present

- Implemented C++ for embedded sensor interfacing and on-board data collection
- Developed parsing, analysis, and graphing applications to improve efficiency in car design process

**Air Force Research Lab, Rome, NY** | Machine Learning Intern

May – Aug 2017

- Developed a bug-report duplicate detector (for triaging on systems such as Bugzilla) which improved state-of-the-art accuracy by 10%; used Python, MongoDB, and TensorFlow
- Studied techniques of machine learning and natural language processing used for document classification
- Presented research to visiting professors and the Advanced Planning and Autonomous C2 Systems Branch

**Bioelectronics & Microsystems Lab, Binghamton University**

June – Aug 2015

- Led research that reduced price from current industry standard glucose meter by an order of magnitude
- Published in *Biosensors and Bioelectronics*, cited 33 times as of 2018

## Awards

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|------|---|
| 2018 | 1 <sup>st</sup> Place at Capital One Software Engineering Summit Hackathon  |
| 2018 | 2 <sup>nd</sup> Place at Wharton Fintech Hackathon                          |
| 2017 | Facebook Award for Best Social Media Hack at HackPrinceton                  |
| 2017 | Eta Kappa Nu, CMPE and EE Engineering Honor Society                         |
| 2016 | Finalist at the International Sustainable World Project in Houston, Texas   |
| 2016 | 1st place "Medicine and Health" at Westchester Science and Engineering Fair |

## Skills

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**Programming:** Python (TensorFlow, Keras, Gensim), Java, C, OCaml, Swift, MongoDB, ELK  
**Design:** AutoCAD, Blender, Photoshop

## Highlighted Course Work

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Compilers and Interpreters (CIS 341)  
Computer Organization and Design (CIS 371)  
Automata, Computability, and Complexity (CIS 262)  
Intro to Computer Systems (CIS 240)  
Mathematical Foundations of Comp. Sci. (CIS 160)  
iOS Development (CIS 195)