

## Education

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### University of Pennsylvania, School of Engineering and Applied Science

May 2020

BSE in Computer Science, Minor in Math, Summa Cum Laude

- Cum. GPA: 3.98/4.00, Dean's List 2016-2020
- Activities: Penn Electric Racing, Club Ultimate Frisbee

## Projects

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### BusRight | Co-founder

Jan 2017 - Present

- Lead team of six developers in executing buildout of cross-platform school bus fleet management system
- Headed hiring of full-time engineering staff, built product road maps, and negotiated vendor contracts
- Provide data analytics to transit operators, offer bus tracking to parents and students, and integrate real-time navigation into bus driver iOS and Android apps, increasing school bus efficiency

### Office Hour Queue ([ohq.io](http://ohq.io))

Dec 2019 - Present

- Implemented Django and GraphQL backend and React frontend to provide online access to office hours
- Supported over 600 WAUs and 1100 MAUs, onboarded 19 classes in the span of one month

## Experience

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### CIS 505 (Distributed Systems), CIS 121 (Data Structures and Algos) | Teaching Assistant

Jan 2018 - 2020

- 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

### Robinhood | Software Engineering Intern

May - Aug 2019

- Migrated electronic document generation into new microservice, led productionization using Kubernetes
- Managed gradual rollout of new service to user traffic maintaining high availability and data correctness
- Built out Kafka data pipelines to ensure the legacy and new services remained in sync

### Google | Software Engineering Intern

Jan - Apr 2019

- Designed, implemented, and launched three high visibility features for Google Classroom iOS
- Led feature design phase, and wrote and took design document through approval process
- Initiated push to improve Classroom iOS accessibility, resulting in a 50% increase in our usability score

### NVIDIA | Software Engineering Intern

May - Aug 2018

- Built centralized dashboard for facilitating Dev, SRE, and PM interactions with GPU Cloud CI/CD pipelines
- Wrote and took design document through design review process for feedback and approval
- Implemented platform using Elasticsearch, Logstash, and Kibana (ELK), maintained user documentation

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

May - Aug 2017

- Developed 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

## Awards

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2020	Social Impact Award, Penn CIS Senior Design
2019	Tau Beta Pi, Engineering Honor Society
2018	1st Place at Capital One Software Engineering Summit Hackathon
2018	2nd 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

## Skills

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**Programming:** C++, C, Python (Django, DRF), Java, JavaScript, Swift, OCaml, ELK, SaltStack  
**Design:** AutoCAD, Blender, Photoshop

## Highlighted Course Work

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Distributed Software Systems (CIS 505)  
Advanced Programming (CIS 552)  
Compilers and Interpreters (CIS 341)  
Operating Systems (CIS 380)  
Computer Organization and Design (CIS 371)  
Applied Machine Learning (CIS 519)