

EXPERIENCE

- **Penn Tech Review** Philadelphia, PA
Lead Engineer *September 2017 - Current*
 - **Product:** Maintained legacy code in React.js and implemented new personalized features with Express backend for 2,000+ readers and increased readership by over 50%
 - **DevOps:** Implemented SSL security and handled server infrastructure using Nginx and Ubuntu and decreased load-times by over 200%
- **Penn Labs** Philadelphia, PA
Software Engineer *September 2017 - Current*
 - **Product:** Launched PennBasics: webapp for undergrads to receive realtime and personalized information on campus essentials (Study Spaces, Laundry, Dining etc.)
 - **API:** Developed backend using MongoDB and Express.js to be used by 10,000+ undergraduates and integrated ESLint and Mocha/Chai for unit testing
 - **Security:** Developed account system with token-based authentication and implemented SSL security
- **TrackGen** Hamilton, ON
Software Engineering Intern *May 2017 - August 2017*
 - **Security:** Developed API for multi-target/sensor tracking SaaS deployed for military (defense) and autonomous driving applications (using Express, MongoDB, and JWTs)
 - **Architecture:** Re-designed and prototyped high-performance computation system to reduce AWS bills by over 500% using Docker and EC2 Dynamic Scaling
 - **Developer Tools:** Wrote automation script to speed up deployment process by 90%
- **elore** Cambridge, MA
Engineering Lead *June 2016 - May 2017*
 - **Startup:** Founded technical recruitment startup at MIT residential incubator (awarded Most Progressive Company) and scaled to 5 engineers, 30 companies, and 120 users
 - **Product:** Prototyped and deployed machine learning model using NLTK to match candidates with relevant experience to companies and filter spam (malicious users) from system
 - **Infrastructure:** Bootstrapped architecture using Node, wrote unit tests, and built flexible data pipeline with SQL

PROJECTS

- **crypt:** Secure password manager that obfuscates emails by routing through disposable addresses
- **programjs:** Open source lightweight node library for common algorithms and data structures
- **crntly:** Full stack minimalist kanban board (Trello clone) for teams to organize workflows
- **Technical Blog:** Articles on mathematics, AI, and startups (featured by MIT, HackerNoon) with 10k+ readers

AWARDS AND PUBLICATIONS

- | | |
|---|--------------|
| Large-Scale Intelligence, Surveillance and Reconnaissance from Cloud to Mobile | SPIE Defense |
| Published industry research paper in SPIE Defense journal on cloud computing architecture | April 2016 |
| Finalist and Best Security Award | PennApps XV |
| Awarded for crypt's overall cryptography usage and security architecture | January 2017 |

PROGRAMMING SKILLS

- | | |
|--|--|
| • Proficient: Python, Node.js, Java, SQL, AWS | Familiar: Shell, C++, React, Pandas |
|--|--|

EDUCATION

- **University of Pennsylvania (Artificial Intelligence Program)** Philadelphia, PA
GPA: 3.7 - Computer Science Dual Degree, Mathematics and Statistics minors *Sept. 2017 - April. 2021*
- **Harvard University (Extension School)** Online (with credit)
Intensive Introduction to CS, Dynamic Web Applications, Abstraction in Computation *Jan. 2015 - April. 2017*