JUSTIN SWIRBUL

355 Columbus Ave, Apt 4, Boston, MA 02116
swirbulj@gmail.com
https://justinswirbul.com
(914) 656-6497

EDUCATION

University of Pennsylvania // Philadelphia, PA
Bachelor of Science in Engineering // *May 2020*
Major: Computer Science
Minors: Fine Arts, Mathematics
GPA: 3.77/4.00, Dean's List (all years)

COURSEWORK

Programming Languages and Techniques I & II, Algorithms and Data Structures, Software Design/Engineering, Computer Organization and Design, Automata Computability & Complexity, Computational Linear Algebra, Intro to Networks and Security, Interactive Computer Graphics

SKILLS

Python, Java, JavaScript/TypeScript, HTML, CSS, Linux, AWS
Familiar with: React, Vue.js, SQL, C, OCaml, Adobe Creative Cloud

EXPERIENCE

Software Development Engineer at Amazon
Boston, MA // June – August 2019 (Intern), September 2020 – Present (Full-time)

Software development on the Elastic File System team within AWS. Worked on canary software to monitor component health, data migration between storage tiers, and service-wide deployment tools and infrastructure (Python, Java, Typescript, AWS).
Internship: Implemented programmatic creation and deployment of service metric dashboards (Python). Enabled the embedding of these dashboards in an internal website, along with other miscellaneous website features (React).

Research Intern at University of Pennsylvania PRECISE Center
Philadelphia, PA // June – August 2018

Researched cyber security of Internet of Medical Things devices with computer science professors and medical research staff at Penn, with focus on botnets and secure communication between devices. Developed Internet of Things security device based on reverse engineered Mirai botnet with goal of autonomously securing networks of devices (Python, C, Linux).

Co-Founder and CTO at Verstaan
Philadelphia, PA // February 2018 – March 2020

Led six person dev team and ran dev related operations for pre-seed venture-backed startup. Developed prototype of Atlas, a threat intelligence and management platform for security teams and enterprise. Performed high-level product design, full stack development (React, React Native, Firebase), data analysis (Python) and visualization.

ACTIVITIES

Penn Ski and Snowboard Team
President // *September 2016 – May 2020*

Wharton Undergraduate Entrepreneurship Club
VP of Education // *September 2018 – May 2019*

Mitre Embedded Capture-the-Flag Challenge
Database/Server Implementation and Red Team // *January 2018 – May 2018*

Penn Blockchain Club
App Development Team // *September 2017 – May 2018*