



JUSTIN SWIRBUL

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EDUCATION

University of Pennsylvania // Philadelphia, PA
Candidate for Bachelor of Science in Engineering // *May 2020*
Major: Computer Science
Minors: Fine Arts, Cognitive Science
GPA: 3.75/4.00, Dean's List (2016-2017, 2017-2018, 2018-2019)

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

Java, Python, JavaScript, HTML, CSS, React, C++, C, Linux, Microsoft Office Suite
Familiar with: React Native, Vue.js, SQL, OpenGL, Verilog, OCaml, Adobe Creative Cloud

EXPERIENCE

SDE Intern at Amazon

Boston, MA // June – August 2019

Software development on the Elastic File System team within AWS. Implemented programmatic creation and deployment of service metric dashboards within internal tooling and deployment pipelines (Python). Enabled the embedding of these dashboards in an internal website along with other miscellaneous 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, focusing 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 at Verstaan

Philadelphia, PA // February 2018 – present

Leading six person dev team and running dev related operations for pre-seed venture-backed startup. Developing Atlas, a threat intelligence and management platform for security teams and enterprise. Performing 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 – present

Wharton Undergraduate Entrepreneurship Club

Exec Board // September 2018 – present

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