



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: 3.76/4.00, Dean's List (2016-2017, 2017-2018)

COURSEWORK

Programming Languages and Techniques, Algorithms and Data Structures, Computer Organization and Design, Automata Computability & Complexity, Intro to Networks and Computer Security, Interactive Computer Graphics

SKILLS

Java, Python, JavaScript, HTML, CSS, C++, C, Linux, Microsoft Office Suite
Familiar with: SQL, PHP, GLSL, Verilog, OCaml, Adobe Creative Cloud

EXPERIENCE

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 development of Atlas web app, a threat forecasting and intelligence platform that allows users in emerging markets to predict when, where, and how organized groups will threaten their firm. Performed high-level product design, full stack development (HTML, Vue.js, Firebase), data analysis (Python) and visualization.

Co-Founder at Asio Security

Cambridge, MA and Philadelphia, PA // December 2016 – February 2018

Founded cyber security consulting and penetration testing start up. Performed penetration tests and security analysis, managed social engineering campaigns, and led development of Bait Platform (HTML, JavaScript, SQL), a social engineering and phishing awareness and education tool.

ACTIVITIES

UPenn Ski and Snowboard Team

Men's Alpine Captain // September 2016 – present

Wharton Undergraduate Entrepreneurship Club

Exec Board, Entrepreneur in Residence // 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