JUSTIN SWIRBUL

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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)

SKILLS

Java, Python, AWS, Linux, JavaScript/TypeScript, HTML, CSS
Familiar with: React, Vue.js, C, SQL, 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 service health, improved data migration between storage tiers, and helped operationalize filesystem backup. Drove efforts to redesign service-wide infrastructure and deployment mechanisms, using various native AWS services to make systems more resilient and reduce operational burden (Java, Python, Typescript, AWS).

Internship: Implemented programmatic creation and deployment of service metric dashboards. Enabled the embedding of these dashboards in EFS's monitoring website, along with other miscellaneous website features as stretch goals (Python, 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, data analysis and visualization (React, React Native, Firebase, Python).

ACTIVITIES

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

Two-time Alpine Captain, then President of a 120 person ski club. Coordinated weekend trips to compete in alpine and freestyle events in the USCSA. Oversaw the leadership of the club, worked with school administration, and managed a $50k budget.

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

Designed and ran an educational program for students to develop an idea, generate a business plan, and prepare an effective pitch for a culminating pitch competition.