Yoji Watanabe

Education

Tufts University School of Engineering, Medford, MA
Bachelor of Science in Computer Science &
Bachelor of Arts in Science, Technology, and Society; May, 2020
CS GPA: 3.43 | STS GPA: 3.42 | Overall GPA: 3.06
Coursework: Artificial Intelligence, Computer System Security, Machine Structure & Assembly Line Programming, Discrete Mathematics, Cyberlaw and Policy (Fall 2018), Algorithms (Fall 2018), Programming Languages (Spring 2019), Cultures of Computing, Introduction to Ethics, Biopolitics

Experience

Tufts Technology Services, *Security Engineer Intern*; Medford, MA — Jun 2018 - Present

- Discovered vulnerabilities in SaaS vendor's (large company, >5000 employees) enterprise software that leaked 500,000 database entries, performed follow-up vulnerability assessments, issues have since been patched
- Developed software solutions to speed up security analyst and system administrator workflows

The Crafts Center, *Manager*; Somerville, MA — Mar 2017 - Present

- Managed a $7500 budget and worked with 37 volunteers to maintain the community space
- Established a dedicated electronics and woodworking section and taught basic skills like soldering, basic circuitry, and wood shop safety

Brazilian Student Association (BRASA), *Database Coordinator* — Sep 2016 - Apr 2017

- Developed dynamic web pages linked to databases with Ruby on Rails
- Provided technology support for conferences with ~300 people attending

Projects

TSC Ferret — Aug 2018

- Developed a command-line tool for sysadmins and security analysts to more efficiently interact with Tenable SecurityCenter implementations
- Built with Python, *numpy*, *pandas*, and *pysecuritycenter* libraries

NetworkAlarm — May 2018

- Created an automated network interface or pcap monitoring tool for endpoint security
- Built with Python using the *scapy* and *pcapy* libraries

DinnerTime — Jan 2018

- Implemented a genetic algorithm that identifies the best recurring meeting times for a group
- Engineered the machine learning algorithm as well as a native "bit-packing" compression algorithm for memory-efficient data processing

Skills

Primary Programming Languages: C, C++, Python | Experience With: x86 Assembly, Kali Penetration Test + Security Audit tools, MATLAB, Ruby on Rails, Unix Shell | Spoken Languages: Portuguese

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