Yoji Watanabe

Education

Tufts University School of Engineering, Medford, MA
Bachelor of Science in Computer Science; May, 2020
Bachelor of Arts in Science, Technology, and Society; May, 2020
Overall GPA: 2.98, CS GPA: 3.29
Coursework: Artificial Intelligence, Algorithms, Computer System Security, Machine Structure & Assembly Line Programming, Discrete Mathematics, Cyberlaw and Policy, Programming Languages, Electrical Systems, Introduction to Ethics

Experience

InterSystems Corporation, *Engineering/Product Support Intern* – Jun 2019 - Aug 2019

- Independently developed automated source code testing infrastructure for continuous testing using proprietary and open-source technologies
- Trained in SQL database management and development

Tufts Technology Services, *Security Engineer Intern*; Medford, MA – Jun 2018 - Jun 2019

- Discovered vulnerabilities in SaaS vendor's (multinational with 5000+ employees) enterprise software that leaked 500,000 database entries and performed follow-up vulnerability assessments
- 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

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 sniffing and 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, Unix/Bash, Angular, MATLAB, Ruby on Rails | Spoken Languages: Portuguese

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