
EXPERIENCE

- May 2016 - present **Software Engineer**, *Tripwire*
- Wrote a C++ library for fetching the NetBIOS name of a server given a IP address using SMB over TCP
 - Wrote a daemon in C using libraries provided by samba to fetch useful information for detecting vulnerabilities from SMB servers
 - Used standard open source tools to find and fix multiple memory errors
- March 2016 - present **Board Member**, *Anidata*
- Built a multithreaded web crawler to fetch data for various projects
 - Taught the Fundamentals of Python bootcamp at the General Assembly
- September 2014 - May 2016 **ORISE Fellow**, *Centers for Disease Control and Prevention*
- Created a C++ library that made use of computer vision and machine learning techniques to retrieve handwritten data from surveys
 - Used web scraping techniques with **Python** and **MongoDB** to automate the quality control of data deliveries to the team
 - Provided high quality data visualizations to aide in data analysis
 - Maintained, secured, and configured team computers running **Linux**

Open Source Software

Sylkie - Author

- Tool for IPv6 address spoofing with the Neighbor Discovery Protocol

smoltcp - Collaborator

- Standalone, event-driven network stack designed for bare-metal, real-time systems.

Redox OS - Core Team Member

- Unix-like Operating System written in Rust.

Servo - Contributor

- Contributed to various components of the servo browser engine with a focus on work pertaining to the IPC implementation used

Languages & Skills

Rust; C; C++; x86, ARM, & RISC-V Assembly; Python; \LaTeX

EDUCATION

- 2014 **Master of Public Health in Epidemiology** *George Mason University*
- 2014 **Graduate Certificate in Biostatistics** *George Mason University*
- 2012 **Bachelor of Science in Community Health** *George Mason University*

CONFERENCE & POSTER PRESENTATIONS

- September 22, 2015 Daniel L. Robertson, Jin-Mann S. Lin. Application of computer vision and machine learning to public health data validation. CDC/ATSDR Statistics Day. Atlanta, GA
- August 26, 2015 Daniel L. Robertson, Kathryn H. Jacobsen, Heibatollah Baghi. Hunter-killed deer as a predictor of notifiable disease rates for Lyme disease and Babesiosis in New Jersey Counties, 1997 to 2013. International Conference on Emerging Infectious Diseases. Atlanta, GA

HONORS

- 2014 **Delta Omega Honorary Society in Public Health**, *Gamma Tau Chapter*
- 2014 **Phi Kappa Phi Honors Society**
- 2014 **GMU Graduate Service and Leadership Award**