Daniel L. Robertson

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https://github.com/dlrobertson

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 & 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**