Daniel L. Robertson

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EXPERIENCE

May 2018 - present

Machine Intelligence Engineer, *Embedded Intelligence LLC*

- Wrote the data collection pipeline for the Understanding Group Biases project.

May 2016 - June 2018

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
- Maintained, secured, and configured team computers running `Linux`

Open Source Software Highlights

Sylkie - Author
- Tool for IPv6 address spoofing with the Neighbor Discovery Protocol.

smoltcp - Collaborator
- Immplemented IPv6 support and assisted in project maintenance.

Redox OS - Member
- Network stack maintainer.

Rust - Contributor
- Implemented `VaList` for C `va_list` compatibility.

Servo - Contributor
- Contributed to various components of the servo browser engine with a focus on work pertaining to the IPC library.

Languages & Skills

`Rust; C; C++; ARM, RISC-V, & x86 Assembly; Ada; 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

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**