

Daniel L. Robertson

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Languages & Skills

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

Open Source Software Highlights

Sylkie - Author

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

smoltcp - Collaborator

- Implemented IPv6 support and assisted in project maintenance.

Redox OS - Member

- Network stack maintainer.

Servo - Contributor

- Maintainer of the IPC library.
- Made various contributions to other components of the servo browser engine.

Rust - Contributor

- Implemented `Valist` for C `va_list` compatibility.

LibreOffice - Contributor

- Contributions focused on optimizing procedures, templating, and moving to C++11.

EXPERIENCE

May 2018 - present **Machine Intelligence Engineer**, *Embedded Intelligence LLC*

- Architect, build, and maintain a distributed ETL pipeline using Kubernetes, Luigi, Airflow, and Spark.

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**

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*

HONORS & CONFERENCE 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

2014 Delta Omega Honorary Society

2014 Phi Kappa Phi Honors Society