

# Daniel L. Robertson

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http://dlrobertson.com  
https://github.com/dlrobertson

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## Languages & Skills

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

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## Open Source Software Highlights

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**Sylkie** - Author

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

**smoltcp** - Collaborator

- Implemented IPv6 support and assisted in project maintenance.

**Rust** - Contributor

- Implemented support for C `va_list` and C variadic functions.
- Fixed several internal compiler errors.

**Redox OS** - Member

- Network stack maintainer.

**Servo** - Contributor

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

**LibreOffice** - Contributor

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

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## EXPERIENCE

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

- Architected, built, and maintained a distributed ETL pipelines 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

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## EDUCATION

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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*

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## HONORS & CONFERENCE PRESENTATIONS

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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