Daniel L. Robertson

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

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
- Immplemented 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.

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

EXPERIENCE

April 2019 - present	**Technical Specialist**, *Star Lab*	

- Come back later to find out!

April 2019		
May 2018 - April 2019	**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`

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 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