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

Linux
- Wrote the BMA400 Accelerometer IIO driver.
- Fixed several bugs in `bcachefs`.

Mythril
- Implemented host ACPI table parsing and building guest ACPI tables.

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

smoltcp
- Immplemented IPv6 support and assisted in project maintenance.

EXPERIENCE

April 2019 - present	**Member of Technical Staff**, *Star Lab*	

- Maintain a custom Linux Security Module.
- Maintain two custom filesystems.

May 2018 - April 2019	**Machine Intelligence Engineer**, *Embedded Intelligence*

- Architected, built, and maintained a distributed ETL pipelines.

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 to retrieve handwritten data from images of 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