

Daniel L. Robertson

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

Languages & Skills

Rust; C; RISC-V & x86 Assembly; Python; ~~TeX~~

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

- Implemented IPv6 support and assisted in project maintenance.

EXPERIENCE

April 2019	- present	Member of Technical Staff , <i>Star Lab</i> <ul style="list-style-type: none">• Maintain a custom Linux Security Module.• Maintain two custom filesystems.
May 2018	- April 2019	Machine Intelligence Engineer , <i>Embedded Intelligence</i> <ul style="list-style-type: none">• Architected, built, and maintained distributed ETL pipelines.
May 2016	- June 2018	Software Engineer , <i>Tripwire</i> <ul style="list-style-type: none">• Used standard open source tools to find and fix multiple memory errors• 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
March 2016	- March 2019	Board Member , <i>Anidata</i> <ul style="list-style-type: none">• Taught the Fundamentals of Python bootcamp at the General Assembly
September 2014	- May 2016	ORISE Fellow , <i>Centers for Disease Control and Prevention</i> <ul style="list-style-type: none">• Maintained, secured, and configured team computers running Linux

EDUCATION

2014	Master of Public Health in Epidemiology <i>George Mason University</i>
2014	Graduate Certificate in Biostatistics <i>George Mason University</i>
2012	Bachelor of Science in Community Health <i>George Mason University</i>

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
--------------------	---