

# 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; RISC-V & x86 Assembly; Python; ~~TeX~~

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## Open Source Software Highlights

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### 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.

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## EXPERIENCE

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| April 2022     | - present    | <b>Senior Software Engineer</b> , <i>Mozilla</i>   |
| April 2019     | - April 2022 | <b>Member of Technical Staff</b> , <i>Star Lab</i> <ul style="list-style-type: none"><li>• Maintain a custom Linux Security Module.</li><li>• Maintain two custom filesystems.</li></ul>   |
| May 2018       | - April 2019 | <b>Machine Intelligence Engineer</b> , <i>Embedded Intelligence</i> <ul style="list-style-type: none"><li>• Architected, built, and maintained distributed ETL pipelines.</li></ul>  |
| May 2016       | - June 2018  | <b>Software Engineer</b> , <i>Tripwire</i> <ul style="list-style-type: none"><li>• Used standard open source tools to find and fix multiple memory errors</li><li>• Wrote a C++ library for fetching the NetBIOS name of a server given a IP address using SMB over TCP</li><li>• Wrote a daemon in C using libraries provided by samba to fetch useful information for detecting vulnerabilities from SMB servers</li></ul> |
| March 2016     | - March 2019 | <b>Board Member</b> , <i>Anidata</i> <ul style="list-style-type: none"><li>• Taught the Fundamentals of Python bootcamp at the General Assembly</li></ul>  |
| September 2014 | - May 2016   | <b>ORISE Fellow</b> , <i>Centers for Disease Control and Prevention</i> <ul style="list-style-type: none"><li>• Maintained, secured, and configured team computers running <b>Linux</b></li></ul>  |

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## EDUCATION

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

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## 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 |
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