
EXPERIENCE

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|----------------|-------------|--|
| May 2018 | - present | Machine Intelligence Engineer , <i>Embedded Intelligence LLC</i> <ul style="list-style-type: none">• Wrote the data collection pipeline for the Understanding Group Biases project. |
| May 2016 | - June 2018 | Software Engineer , <i>Tripwire</i> <ul style="list-style-type: none">• 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 , <i>Anidata</i> <ul style="list-style-type: none">• 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 , <i>Centers for Disease Control and Prevention</i> <ul style="list-style-type: none">• Created a C++ library that made use of computer vision and machine learning techniques to retrieve handwritten data from surveys• Used web scraping techniques with Python and MongoDB to automate the quality control of data deliveries to the team• Provided high quality data visualizations to aide in data analysis• Maintained, secured, and configured team computers running Linux |

Open Source Software

Sylkie - Author

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

smoltcp - Collaborator

- Standalone, event-driven network stack designed for bare-metal, real-time systems.

Redox OS - Member

- Unix-like Operating System written in Rust.

Servo - Contributor

- Contributed to various components of the servo browser engine with a focus on work pertaining to the IPC library.

Languages & Skills

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

EDUCATION

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| 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 & POSTER 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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HONORS

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| 2014 | Delta Omega Honorary Society in Public Health , <i>Gamma Tau Chapter</i> |
| 2014 | Phi Kappa Phi Honors Society |
| 2014 | GMU Graduate Service and Leadership Award |