Bryn Meekel

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Calgary, Canada

Engineer with a desire to be involved in the open source movement, with an entrepreneurial methodology and a passion for research and implementation of modern technologies.

Early in life Bryn developed an interest in the technologies that surrounded him. Of these, the computer quickly became a field Bryn was found to be highly proficient. Programming and using alternative operating systems such as Linux and BSD based operating systems became regular activities for Bryn, which he learned about at the University of Calgary as an extracurricular activity.

At the University of Calgary, Bryn seeks to gain a bachelor's degree in Software Engineering with a desire to propel the bachelor degree into a master's degree in Computer Science, focusing on cryptographic systems and distributed computation.

Experience

Mozilla Foundation

Volunteer Open Source Programmer *Aug '12 – Aug '15*

Assisted in the development of the Network Security Scripts, a set of C libraries designed for the implementation of client authentication and general network security. Significant and relevant work involved code maintenance on cryptographic system code, and the implementation of an API for Python, *python-nss*.

Tox Foundation

Volunteer Open Source Engineer *Jul '13 – Jan '16*

The Tox Foundation produces the TOX communication libraries, a set of communication and networking libraries designed for creating a secure implementation of private interfacing. Co-Founded the project in July of 2013 and helped engineer the general architecture of the DHT based network while making decisions on the cryptographic implementation of NaCl and maintenance of official implementations.

MonoTorrent Project

Volunteer Open Source Programmer *Jun '14 – Oct '14*

Assisted in the implementation of a Magnet URI scheme handler, for processing the cryptographic functions of magnet links into peer-to-peer Unique Resource Naming.

Schulich School of Engineering at the University of Calgary

Automation Software Engineer and Lab Technician *Apr '14 – Oct '16*

Aided in the design of test automation by using National Instruments hardware and the National Instruments LabView programming language for wind tunnel testing. By automating tests using modern design principles such as object-oriented design and modern National Instruments Data Acquisition libraries, the project was able to increase volume and rate of data acquisition, allowing data to be gathered for multiple projects simultaneously on the same hardware.

Please refer to my Linked-in profile for a more complete list of experience along with recommendations, and completed education.

Education

University of Calgary — Calgary, Alberta

Bachelor degree in Science of Engineering, Software Engineering

Focusing on developing skills in Low-Level languages such as C and C++ with the hope of developing knowledge and proficiency necessary to work in the Enterprise market, developing applications and tools for Enterprise software and networks. Furthermore, studying cryptography and related theories of computation and information.

Westmount Charter School — Calgary, Alberta

Honours Student — *Graduated 2014*

Skills

Technical expertise:

Software design and implementation, in a team based or a solo environment. Highly adept in a variety of Agile methodologies, automated deployment technologies, and continuous integration methods (Hudson/Jenkins).

Operating Systems: Windows - systemD administration, - Puppet and Chef - Debian, RHEL, Gentoo, Arch and SUSE Linux - BSD

Languages: Python - Java - C - C++- Haskell

Web Technologies: HTML5+CSS3 - XML/XHTML - REST - SOAP and JavaScript (jQuery, node)

Blockchains: Ethereum - Bitcoin

Security Tools: NginX/Apache/h2o - TLS 1.3 - AES and ChaCha20+Poly1305 - iptables - mail services, media services, PAM/LDAP and VPS

Furthermore, I have experience using the Kali Linux operating system in both penetration testing and forensics mode with encrypted persistent storage. Moreover, I am aware of how to obtain and use the tools provided in Kali including nmap, THCHydra, Nikto, Ettercap, Wireshark, and the Metasploit framework.

Natural languages:

English *(full professional proficiency)*

Personal Interests

A Non Exhaustive List: cartography, chess, cryptography, free and open source software, history, music, networking, network security, philosophy, software design, typography (e.g. graphic design, LaTeX), video game design UI/UX-design

References

Available Upon Request