Daniel Connelly

Address: Portland
Mobile: (503) 504-4930
Email: connellyd2050@gmail.com
GitHub: https://github.com/Danc2050
LinkedIn: https://www.linkedin.com/in/dconnelly2/

Education

Portland State University *Portland, OR*
Master of Science in Computer Science, GPA: 3.74 *2018 - 2020*

- **Courses:** Cybersecurity, Blockchain Development & Security, Artificial Intelligence, Machine Learning, Operating Systems, Internet & Cloud Systems
- **Thesis:** Identifying security vulnerabilities in Solidity code, enumerating financial risk, and creating a registry of insecure code.

Portland State University *Portland, OR*
Cybersecurity Graduate Certificate *2018-2020*

- Professor Wu-Chang Feng, who specializes in Security and Cloud Computing, is my Thesis Adviser.

Portland State University *Portland, OR*
Bachelor of Science in Psychology, GPA: 3.82 *2016-2018*

- Magna Cum Laude, Honors College Graduate, Published Thesis, Dean's List, President's List

Skills

Programming Languages C++, C, Java, Python, JavaScript
Operating Systems Linux, Windows, Mac
Software Git, Google Cloud, Amazon Web Services (AWS), MySQL, PostgreSQL, Docker, Trello

Experience

haveibeenexploited.com *Portland, OR*
Sole Software Developer, Maintainer *June 2019 - PRESENT*

- Program the backend of an online database of $1,000,000$ exploitable Ethereum programs within $9,000,000$ blocks using parallelization (threads, multiprocessing).
- $\$5,000$ Google Cloud Grant, $\$5,000$ Portland State University Grant, funded by the Ethereum Foundation.

Portland State University *Portland, OR*
Graduate Research Assistant *Sept 2019 - PRESENT*

- Create course material for 25 students in the Blockchain Security Course using open source tools

Portland State University *Portland, OR*
Computer Science Tutor *Sept 2019 - PRESENT*

- Tutor 10-15 lower-division students per week in object-oriented programming, discrete structures, and x86 assembly to improve academic performance.
- Help students in debugging, troubleshooting, and designing programming assignments in C, C++, and Java.

Projects

Multilayer Network *2019*

- Trained a neural network with a hidden layer consisting of 100 nodes to identify digits $0-9$.
- Achieved 95% accuracy with techniques such as momentum, gradient descent, and sigmoid activation.

Code Cracking *2019*

- Cracked 60 salted passwords by using the C library SHA1 hash of a dictionary of words with salts.
- Gained knowledge by experimenting with cracking passwords based on other hashing techniques (e.g., RSA, HMAC, MD5).