DANIEL CONNELLY

Portland, Oregon

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EDUCATION

Portland State University

Master of Science in Computer Science, G.P.A: 3.74

January 2019 - March 2020

- Graduate Courses: Cybersecurity, Blockchain Development & Security, Artificial Intelligence, Machine Learning, Operating Systems, Data Structures & Algorithms, Programming Languages

Grad-prep Computer Science, G.P.A: 3.6

Bachelor of Science in Psychology, G.P.A: 3.82

January 2018 - January 2019

October 2017 - January 2018

OBJECTIVE

I am interested in Software Development, Software Engineering, or anything that touches the software lifecycle really. Courses and projects have taught me varying disciplines that have equipped me to be a good Software Engineer. Namely, graduate courses in Networks, Operating Systems, Programming Languages, Blockchain, and others. I enjoy unique problems and solving them with varying languages such as Java, C, C++, and Python.

PROJECTS

Capstone Sponsor

Spring 2020 - Present

• Applicant sponsor for an Agile team of 5-6 students to work on an automated bug submission software.

Digital Registry of Vulnerable Ethereum Programs

June 2019 - Present

- Employed exhaustive Symbolic Execution over ≈ 1.7 million programs, finding $\approx 800,000$ of them to contain security vulnerabilities.
- Utilized Python for scripting and programming, Docker for isolation of containers, Linux for its easy infrastructure, and Git for version control.
- Co-built a React app and Go server to intake HTTP and MySQL database requests. Setup and managed DNS configuration and SSL certification of a public facing website which was deployed to Google App Engine and later hosted on a Google Compute Engine instance.

Email and Text Notification

March 2020 - Present

- Porting a Bash script to Python which is capable of sending emails, texts, attachments, alerts when a program finished, and digitally signing emails.
- Increased feature set by approximately 5 (config option, multiple operating system compatibility...).

Password Cracking

April 2019

- Cracked 60 salted passwords by using the C library SHA1 hash of a dictionary of words with salts.
- Experimented with other hashing techniques and encryption algorithms (e.g., RSA, HMAC, MD5).

TECHNICAL SKILLS

Programming Languages C, C++, Java, Python, Solidity, JavaScript

Operating Systems Linux, Windows, Mac

Other Skills Git, Google Cloud Platform (GCP), Amazon Web Services (AWS), SQL, MySQL, PostgreSQL, Docker, Trello, Travis CI, Continuous Integration (CI), Continuous Deployment (CD),

WORK EXPERIENCE

Portland State University

September 2019 - March 2020

Graduate Research Assistant

- \$10,000 in total grants: \$5,000 Google Cloud Grant, \$5,000 Portland State University Grant.
 - Research and present a thesis on the current state of security for Ethereum Smart Contracts.
 - Secure software development included the use of C/C++ in running API calls to gather data.

Portland State University

September 2019 - January 2020

Computer Science Tutor

- 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 assignments in C, C++, and Java.

CERTIFICATIONS, AWARDS, PUBLICATIONS, VOLUNTEERING

SoloLearn Programming Language Certifications: C, C++, Java, Python, SQL	March 31 2020
Google Cloud Research Grant: \$5,000	$September\ 2019$
Portland State University/NSF Grant: \$5,000	$September\ 2019$
MS Thesis: Smart Contract Vulnerabilities on the Ethereum Blockchain: A Current Persp	pective May 11 2020
Women in Computer Science (WiCs): Member/Mentor September	tember 2019 - March 2020
Association of Computer Machinery (ACM): Treasurer	December 2018 - 2019
BS Thesis: Delays in Treatment: A Literature Review of Pathways to Treatment for Psych	hosis January 1 2018
Honors College Graduate (BS): Magna Cum Laude	January 2018