

Scott Griffy

Curriculum Vitae

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Publications and workshops

- DIMACS 2020 **Abradable Key Wrapping**, *Scott Griffy, Charles V. Wright, Mayank Varia*, DIMACS Workshop on Co-Development of Computer Science and Law, Poster session and lightning talk.
- IEEE DSN 2019 **The Strength of Weak Randomization: Easily Deployable, Efficiently Searchable Encryption with Minimal Leakage**, *David Pouliot, Scott Griffy, and Charles V. Wright*, 49th IEEE/IFIP International Conference on Dependable Systems and Networks.
- Master's Thesis 2019 **Crumpled and Abraded Encryption: Implementation and Provably Secure Construction**, *Scott Griffy*, Portland State University Master's Thesis, Advisor: Charles V. Wright.

Education

- 2021 to current **PhD, Computer Science**, *Brown University*, Providence, RI, –.
◦ Advisor: Anna Lysyanskaya
◦ Taking classes on cryptography, probability, and algebra
◦ Researching mercurial signatures and structure-preserving signatures
- 2017 to 2019 **Master of Science, Computer Science**, *Portland State University*, Portland, OR, 3.95.
◦ Advisor: Charles V. Wright
◦ Took classes in computer security and cryptography.
◦ Researched searchable encryption, co-authoring a paper at DSN 2019.
◦ Defended my thesis relating to exceptional access in June, 2019.
◦ Wrote an educational Windows 10 32-bit rootkit that included a keylogger.
◦ Helped create the Portland State University video game development club.
◦ Configured and performed database benchmarks such as TPC-C and SPARTA, a framework from MIT Lincoln Laboratory.
◦ Wrote a script to crawl Github and put security related information in a PostgreSQL database.
- 2010 to 2016 **Bachelor of Science, Computer Science**, *Oregon State University*, Corvallis, OR, 3.0.
◦ Computer Systems Option, ABET Accredited
◦ Awarded best capstone project. This project used single board computers for computer vision.
◦ Designed and implemented a database to store, search, and replay chess games.

Work experience

- September 2021 to present **Research/Teaching Assistant**, *Brown University*, Providence, RI.
◦ TA for cryptography
◦ Researching cryptography and anonymous credentials
- July 2019 to July 2021 **Security Engineer/Researcher**, *Intel Corporation*, Hillsboro, OR.
◦ Worked with memory encryption, virtualization-based security, nested virtualization, and other OS technologies
◦ Debugging operating systems and hardware.
◦ Filed a patent
◦ Exploiting Intel products
◦ Researching timing attacks through hardware power signal analysis
- September 2018 to June 2019 **Research/Teaching Assistant**, *Portland State University*, Portland, OR.
◦ Designed new cryptographic protocols for privacy and exceptional access
◦ Worked on symbolic execution in ethereum contracts
◦ TA for computer security
- June 2018 to September 2018 **Graduate Technical Intern**, *Intel Corporation*, Hillsboro, OR.
◦ Developed a proof of concept securing a virtual machine with new technologies
◦ Worked with memory encryption and TPMs
◦ Worked with Windows virtualization technologies

- March 2018 **Quality Assurance Intern**, *Iovation*, Portland, OR.
to June 2018
 - o Pen tested web applications including code auditing in Java
 - o Ran and analyzed scans with Qualys, Burp Suite
- July 2016 to **Software Contractor**, *Empirical Inc*, Portland, OR.
December
 - o Added voice recognition to an existing python project
 - 2016 o Developed a test suite for a React/Redux web application

Skills

Programming Languages:

Java, C/C++, HTML/CSS, JavaScript, PHP, SQL, Python, OpenGL, CUDA, Haskell, PowerShell

Utilities/Tools:

bash, git, ssh, Apache HTTP, ftp/scp, vim, Debian/Ubuntu, CentOS/Fedora, L^AT_EX, gdb, Metasploit, Visual Studio, Eclipse, WinDBG, Android SDK/NDK, PostgreSQL

References and full form resume available upon request