Rana Khalil

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EDUCATION

Master of Computer Science - Thesis Option (2018)

University of Ottawa

Thesis: Comparative Analysis of Open-source Black-box Web Vulnerability Scanners.

Joint Honors Mathematics and Computer Science (2016)

University of Ottawa

Honours Project: Scale Invariant Fully Homomorphic Encryption Over the Integers.

EXPERIENCE

University of Ottawa

Ottawa, ON

Teaching Assistant

Sept. 2016 - Aug. 2018

Taught weekly lab/tutorial sessions, held weekly office hours, marked theory and programming assignments and proctored midterms and final exams. Courses taught include Data Structures (CSI2110), Discrete Structures (CSI2101), Databases I (CSI2132) and WWW Structures, Techniques and Standards (CSI3140).

Trend Micro and NSERC

Ottawa, ON

Ransomware Researcher

Oct. 2016 - Apr. 2017

Performed dynamic and static analysis using IDA Pro and Volatility on a specific type of ransomware. Identified the given ransomware functionality and properties for detection and recommended countermeasures to mitigate risk. Produced a technical analysis report summarizing malware analysis results.

2Keys Ottawa, ON

Junior Software Developer / Security Analyst

Jan. 2016 - Aug. 2016

Developed and maintained a test suite in Java that ensured the given web application performs properly according to design specifications. Conducted penetration testing / vulnerability assessment on the web application. Created and delivered security training on techniques in ethical hacking using Burp Suite.

Innovation, Science and Economic Development (ISED) Canada

Ottawa, ON

Software Developer

May 2015 - Dec. 2015

Developed a test suite in PostgreSQL and Python to validate decisions made by the FCC for re-purposing the 600 MHz band. Created an interface in HTA to incorporate the validation programs for easier use.

Canada Revenue Agency (CRA)

Ottawa, ON

Tester

May 2013 - Aug. 2013

Designed and executed test cases for the Cost Management & Estimating Tool for Solutions (CoMETS) web application. Participated in an agile approach in developing functional requirements for the design of CoMETS application. Documented user guides and reference sheets to facilitate easier use of the application. Created and delivered training on IBM Rational Functional Tester (RFT) that included a tutorial manual, videos and demos to colleagues.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, HTML, CSS, PostgreSQL, Bash, LaTeX. Tools: Burp Suite, OWASP ZAP, Arachni, skipfish, Vega, Wapiti, BeEF, NMap, tcpdump, John the Ripper.

LEADERSHIP ROLES

• Vice Chair UOMSA Orphan Sponsorship Initiative	2016
• Peer Mentor Women Startup Network	2015
• VP Academic IEEE University of Ottawa Student Branch	2014
• Vice Chair IEEE University of Ottawa Student Branch Women in Engineering (WIE)	2013