Rana Khalil

https://rkhal101.github.io/

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EDUCATION

University of Ottawa — Ottawa, ON
Master of Computer Science - Thesis Option — *Sept. 2016 – Aug. 2018*

University of Ottawa — Ottawa, ON
Joint Honors in Mathematics and Computer Science — *Sept. 2011 – Aug. 2016*

EXPERIENCE

University of Ottawa — Ottawa, ON
Teaching Assistant — *Sept. 2016 - To Date*

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) and Databases I (CSI2132).

Innovation, Science and Economic Development Canada — Ottawa, ON
Software Developer — *Jan. 2017 - Apr. 2016*

Developed several programs in Python that validate decisions made by the FCC for re-purposing the 600 MHz band. Integrated these programs into available interface.

Trend Micro — Ottawa, ON
Ransomware Researcher — *Oct. 2016 - Apr. 2017*

In partnership with Trend Micro, I was part of a University of Ottawa team that worked on researching a specific type of ransomware. During the duration of the project, we analyzed multiple ways to identify and prevent ransomware, developed a decryption tool for the ransomware at hand and identified the location of key generation.

2Keys — Ottawa, ON
Junior Software Developer / Security Analyst — *Jan. 2016 - Aug. 2016*

Wrote several validation programs that ensured the developed web application performs properly according to the design specifications. Conducted penetration testing / vulnerability assessment on the web application.

Innovation, Science and Economic Development Canada — Ottawa, ON
Spectrum Engineer Assistant — *May 2015 - Dec. 2015*

Developed several programs in PostgreSQL that validate decisions made by the FCC for re-purposing the 600 MHz band. Created an interface in HTA that incorporates the validation programs.

Canada Revenue Agency — Ottawa, ON
Automated Tester — *May 2013 - Aug. 2013*

Analyzed and developed functional requirements for the software at hand and performed user acceptance testing. Documented user guides and reference sheets to facilitate better understanding of the software. Learned how to use the IBM Rational Functional Tester and developed training material that include tutorial manual, videos and presented demos to colleagues on how the Rational Functional Tester works.

VOLUNTEER AND LEADERSHIP ROLES

- UOMSA Orphan Sponsorship Initiative Vice Chair — *2016*
- Women Startup Network Peer Mentor — *2015*
- IEEE University of Ottawa Student Branch VP Academic — *2014*
- IEEE University of Ottawa Student Branch Women in Engineering Vice Chair — *2013*

TECHNICAL SKILLS

Java, JavaScript, HTML, CSS, PostgreSQL, Bash, Git, LaTeX