Yacin I. Nadji

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Citizenship: U.S. Citizen

Education

Georgia Institute of Technology (GT)

- Doctor of Philosophy/Master of Science in Computer Science (in progress).
- Advisor: Dr. Wenke Lee

Illinois Institute of Technology (IIT)

- Bachelor of Science in Computer Science, with Honors, 2009.
- Advisor: Dr. Ophir Frieder

Publications

1. Yacin Nadji, Prateek Saxena, Dawn Song. "Document Structure Integrity: A Robust Basis For Cross-site Scripting Defense," *In the Proceedings of the 16th Annual Network and Distributed Systems Security Symposium (NDSS)*, 2009. (**11% acceptance rate**).

Research Experience

Graduate Work:

Graduate Research Assistant — 08/2009 - present
Drs. Wenke Lee, Jon Giffin, Patrick Traynor — Georgia Tech

Systems security research that leverages virtualization techniques. This includes virtualization security on both mobile phones and typical desktop machines and using virtualization techniques to aid in the analysis of malware.

Undergraduate Work:

Summer Research Asst. — Summer 2008/2009
Dr. Dawn Song — UC Berkeley

Worked with Dr. Song's WebBlaze security group. In depth investigation of web-based security, focused on cross-site scripting attacks (XSS). Designing and implementing a tandem client/server-side solution, and client-only solution, to mitigate a large subset of XSS attacks. Worked on implementing a decision procedure for JavaScript strings to aid in automated testing of web applications.

Research Assistant — 2008–2009
Dr. Douglas Cork — IIT

Work on applied bioinformatics problems including the sequencing and aligning of prokaryotic DNA. Focused look on W-curve distances in Euclidean space and their significance in molecular structure and function. Responsibilities include adding additional features to the W-curve sequence alignment program in addition to designing and running experiments to illustrate the strengths of the W-curve alignment approach. Former lead developer of the W-curve Project.

Research Assistant 2005–2009
Dr. Ophir Frieder IIT

Multiple development efforts for various government institutions. Responsibilities were creating and running tests for Ph.D students' research and development work on large scale government projects including: an XML indexer, search engine evaluation and search engine development for the United States Holocaust Memorial Museum. See `http://ir.iit.edu`. Lead team to develop insider misuse detection system based on data mining techniques, see `http://www.iit.edu/~ipro311s07/`

Teaching Experience

Teaching Assistant, CS 100: Intro to the Profession (follows Structure and Interpretation of Computer Programs), IIT, Fall 2008. Responsible for running lab and recitation sections, grading labs, and assisting students during office hours.

Teaching Assistant, IPRO 328: Testing and Improving a New Text for Teaching Computer Science, IIT, Spring 2008. Responsible for running the class and acting as project manager.

Teaching Assistant, IPRO 328: Developing a Computer Science Text with Practical Open-Ended Problems, IIT, Fall 2007. Responsible for running the class and acting as project manager.

Learning Assistant, Tutor/Assist Freshman into a Transition to College Life, IIT, 2007/08 Academic Year.

Presentations

"Cross Network Tainting: A New Practical and Collaborative Defense Against XSS Attacks," SUPERB Poster Presentation, August 1, 2008.

"The W-curve: A 3D visualization of long genomic sequences," Chicago Area Undergraduate Research Symposium Poster Presentation (CAURS), April 26, 2008.

"Lisp Macros," Chicago Linux User Group, November 17, 2007.

"Introduction to Objective-C," Chicago Linux User Group, December 16, 2006.

Service

Reviewer

ISOC Network & Distributed System Security Symposium (NDSS)

Honors and Awards

President's Fellowship, GT, 2009.

AOF Fellowship (declined), Wisconsin, 2009.

Undergraduate Summer Research Award, IIT, 2008.

Computer Science Department Teaching Assistant of the Year, IIT, 2007.