Yacin I. Nadji

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Education

Illinois Institute of Technology (IIT)

- Bachelor of Science in Computer Science (3.75/4.0 major), 2009 (expected).

Research Experience

Research Assistant   Summer 2008
Dr. Dawn Song & Prateek Saxena   UC Berkeley

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In depth investigation of web-based attacks, 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.

Research Assistant   2008–Present
Dr. Douglas Cork   IIT

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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.

Research Assistant   2005–Present
Dr. Ophir Frieder   IIT

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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.

Research Assistant   Spring 2007
Dr. Nazli Goharian & Alana Platt   IIT

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Applying Data Mining techniques to detect insider misuse in large systems. Responsible for creating a bootable Linux distribution to log all computer activity (both OS-level and user-level) to generate profiles to compare previous collected statistics with current usage to try and detect misuse. Created dataset will become available in the future and is still being used in current research. See http://www.iit.edu/~ipro311s07/

Publications

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

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.

Scientific Software

Operating Systems:

– Proficient with Linux (Debian, Slackware, and Red Hat), Mac OS 9 and X, Solaris, Windows XP

Computer Languages:

– Proficient with Ruby, Common Lisp, Clojure, C, XHTML/CSS, Javascript, Java, LaTeX, Bash Shell, Objective-C

– Familiar with Perl, PHP, Python, OCaml, Prolog, Erlang

Tools and Systems:

– Proficient with git, CVS/SVN, make, vim; (standard *nix utilities)

– Familiar with Samba, Apache, MySQL, Tomcat

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

Speaker/Member, Chicago Linux User Group, Chicago, IL, 2005-Present.

Exec Board, Association for Computing Machinery, IIT, 2007–2008.

SGA Senator, Student Government Association, IIT, 2007–2008.

Honors and Awards

Undergraduate Summer Research Award, IIT, 2008.

EECS SUPERB-CSIS REU Participant, UC Berkeley, 2008.

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

Leadership Academy, Camras Heald and Presidential Scholarships, IIT, 2005-2009.