

Nicholas L. Farnan

University of Pittsburgh
Department of Computer Science
Sennott Square
Pittsburgh, PA, 15213

Phone: (412) 624-7253
Email: nlf4@cs.pitt.edu
Homepage: <http://www.cs.pitt.edu/>

Education

B.S. Computer Science
Minor in Japanese
Overall GPA: 3.52 Computer Science GPA: 3.73

University of Pittsburgh
August 2004 - December 2007.

Ph.D. Computer Science
Advisor: Adam J. Lee

University of Pittsburgh
January 2008 - Present.

Publications

P. Djalaliev, M. Jamshed, N. Farnan and J. Brustoloni.
Sentinel: Hardware-Accelerated Mitigation of Bot-Based DDoS Attacks,
in Proceedings of the IEEE Intl. Conference on Computer Communications and Networks (ICCCNo8),
August 2008

J. Brustoloni, N. Farnan, R. Villamarín-Salomón, D. Kyle.
Efficient Detection of Bots in Subscribers' Computers
in Proceedings of the IEEE International Conference on Communications (ICC 2009), June 2009.

Employment

Data Management
March 2006 - August 2006

University of Pittsburgh, School of Nursing

Maintained backups of medical research data and decommissioned old computers still containing patient medical data. I also acquired the necessary HIPPA certifications for performing these tasks.

Teaching Assistant
August 2006 - Present

University of Pittsburgh, Department of Computer Science

Student Researcher
May 2007 - Present

University of Pittsburgh, Department of Computer Science

Teaching Experience

I was in charge of leading weekly recitations or labs and grading the following courses:

CS1501: Algorithm Implementation

Spring 2008

CS1666: Principles of Computer Game Design and Implementation

Fall 2008

Fall 2008 was the first running of this course, and as such, I was able to design some aspects of the course and the term project. The course was run again in Fall 2009, and though budget restrictions could not allow for a TA for this course this time through, I still assisted in fine-tuning the design of the course for its second run, taught recitations when the professor would have been unable to, and generally provided additional support to the students.

CS1502: Formal Methods in Computer Science

Spring 2009

CS0007: Introduction to Programming in Python

Fall 2009

Fall 2009 was the first time this course had been done using Python. As such, I was able to take on the additional duties of completely designing several lab sessions.

Additional Projects

XOmB

XOmB is an opensource, 64-bit, SMP, exokernel operating system written in D from scratch by a group of students from the University of Pittsburgh. I played an active role in the early development of XOmB, assisting in working through AMD's x86_64 documentation, and additionally with the GRUB bootloader's Multiboot spec to get our code booting from GRUB.

<http://xomb.org>