Matthew Suozzo

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Education

Columbia University School of Engineering and Applied Sciences

Class of 2015

- Finished Computer Science Major in 5 Semesters
- Relevant Academic Coursework
 - Operating Systems (C, Assembly, Android Kernel)
 - Computer Networks (TCP/IP, Java)
 - Security Architecture and Engineering (C, UNIX, OpenSSL)
 - Distributed Systems (C++, RPC)
 - Malware Analysis and Reverse Engineering (x86, Windows Internals)
 - Intrusion Detection (Snort, BASE, nmap)

Experience

Lead Software Engineer Chip Scan LLC

May 2014-June 2015

- Worked under a Department of Defense SBIR grant to commercialize the FANCI tool

Teaching Assistant Data Structures and Algorithms (W3137)

January–August 2014

- Held weekly office hours and recitations.
- Wrote grading and feedback distribution scripts to facilitate management of 150+ student class.

Research Assistant Columbia U. Computer Architecture Laboratory

June 2010–December 2013

- Participated in several research projects relating to hardware security
- Solely authored and collected data using the FANCI tool. This work led to an award-winning conference publication.

Software Engineering Intern Knewton, Inc., New York, NY

May-August 2012

- Worked with Python Infrastructure team
- Augmented Apache Thrift's Python interface and expanded unit test coverage

Publications

FANCI: Identification of Stealthy Malicious Logic Using Boolean Functional Analysis

Waksman, Suozzo, and Sethumadhavan. ACM Conference on Computer and Communications Security 2013.

- Best Student Paper Award

Projects

Kindle API (Javascript, Python)

- Reverse engineered the Kindle Cloud Reader and built a set of tools to access Kindle data.

FANCI GPU (CUDA C++, CUDA PTX Assembly, Python)

 Extended the FANCI analysis tool to leverage parallel GPU architectures using CUDA, the NVIDIA parallel computing platform.

Videoo (Django, JQuery, HTML)

- A social movie review site that leverages the TMDb and Netflix APIs

Programming Languages

Fluent Python, C, Java

Working Knowledge C++, Javascript, Shell, CUDA C++

Other Interests

Columbia U. Ultimate Frisbee Team (Vice President) Project Euler (71 Solved) Hunter College HS FIRST Robotics Team September 2011–May 2015

2010-2011

October 2010–May 2011