

Corbin Souffrant

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EDUCATION

University of Illinois Urbana-Champaign
Computer Science Engineering B.S., expected May 2014
G.P.A. 3.28/4.0

Relevant Courses

CS461 - Computer Security I	CS460 - Computer Security Lab
CS498SH - Malware Analysis Lab	CS498LA - Undergraduate Research Lab
CS598MAN - Applied Cryptography	CS467 - Social Visualization
CS591RHC - Security Reading Group	CS598MCC - Network Security

SKILLS

Security

- Static and Dynamic Analysis: IDAPro, OllyDBG, GDB, Wireshark
- Vulnerability Discovery: Fuzzer Development, Source Code Auditing, Testing Framework Design
- Malware Analysis: Unpacking techniques, Anti-debugging + Anti-Reversing removal

Languages and Libraries

- C/C++, Python, x86, MIPS, Java
- ROS (Robot Operating System), OpenCV, Android

WORK EXPERIENCE

University of Illinois Fall 13

- Engineering Learning Assistant
- Helped encourage freshmen in Computer Science to get the most out of their college education. Designed and Presented lectures as well as acting as a mentor for the students.

Raytheon SIGOVS Summer 13

- Vulnerability Research and Development
- Vulnerability Discovery using a variety of methods. Developed a smart fuzzer and setup a testing framework. Found bugs via source code auditing as well. Worked with browser security and applications on both x86 and ARM architectures.

University of Illinois Spring - Summer 12

- Worked with Professor Sam King to design and implement an application framework for general purpose robots. This involved developing an API to communicate with the robot via a web and android application. Also wrote applications in python and C++.
- Presented a poster for the research at a research symposium in Siebel in Spring 2012

PROJECTS

Boston Bombing Spam/Malware Prevention Spring 13

- Worked with John Bambenek to analyze a stream of spam related to the Boston bombing, analyzed domain registrations, basic malware reversing
- Thanked on isc.sans.org (SANS Internet Storm Center) and featured on WAND local news

Quality Evaluation of Obfuscation Spring 13

- Attempted to develop a metric to allow for the development of a framework for analyzing the relative strength of an obfuscation routine
- Presented a poster at Siebel Center in Spring 2013

UIUC CTF Team Presenter

Fall 12

- Designed and presented a series of lectures on skills required to participate in a CTF

Android Telemetry for a Vehicle

Fall 12 - Spring 13

- Developed an android application that communicated with an Arduino device connected to a car engine. This provided real-time feedback on car speed, distance traveled, and time elapsed for the Ecoillini Shell Marathon Car

ACTIVITIES

- CSAW CTF 2012, placed 18th for qualifying teams with the ACM CTF Team
- ACM Special Interest Group for Security: Member since Spring 2012
- Undergraduate Computer Science Research Symposium 2012 Poster Presentation
- Illinois Technology Association Fall Challenge Finalist 2011