

RAHIL ARORA

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EDUCATION

- **Johns Hopkins University** (2013-Present)
Master of Science, Security Informatics, Cumulative GPA: 3.90/4.00
- **Vellore Institute of Technology, India** (2009-2013)
Bachelor of Technology, Computer Science & Engineering, Cumulative GPA: 9.04/10.00

PROJECT EXPERIENCE

- **Electronic Healthcare Record (EHR) Anonymizer** (February 2014 – May 2014)
Developed a prototype document editor/viewer, in the form of a Web Application, using the Python Django framework. It internally makes use of an NLP library and Role-Based Access Control mechanism to anonymize EHRs & authorize users.
- **Web Security** (Nov, 2013 – Dec, 2013)
Performed some of the popular web attacks such as Cookie Theft, Cross Site Request Forgery, SQL Injection, Cross Site Scripting etc. on a simple web server.
- **Evaluation, Identification and Classification of Bad actors and Threats in Skyrock** (Sep, 2013 – Dec, 2013)
Identified and evaluated threats and bad actors in the Skyrock social network by collecting publically available data using its API and threat scoring it using the Riskive API.
- **Memory Safety and Reverse Engineering** (Sep, 2013 – Oct, 2013)
Exploited various memory vulnerabilities such as buffer overflow, integer overflow, format string vulnerability etc. Also, reverse engineered a very simple web server binary to perform return into libc attack.
- **LearnWeb²** (Feb, 2013 – Jul, 2013)
LearnWeb² is a collaborative search and sharing system and is one of the ongoing project at L3S Research Center. I developed an Access Control mechanism for this collaborative system.
- **Improved Academic Portal** (Aug, 2012 – Nov, 2012)
Developed a new academic web portal for VIT University using PHP to improve the interaction among students and faculty.

INTERNSHIPS

- **Software Security Intern**, Cigital Inc., Sterling, VA (May, 2014 – Aug, 2014)
Working as an intern at Cigital Inc. Responsibilities include teaming up with other consultants and perform different kinds of vulnerability assessments like Web Application Penetration Testing, Mobile Application Penetration Testing, External Network Assessment, etc. for different clients.
- **Research Intern**, L3S Research Center, Hannover, Germany (Feb, 2013 – Jul, 2013)
During this internship, I worked on a Collaborative System called LearnWeb² (built on JSP 2.0 platform). As a part of my internship, I also wrote my bachelor's thesis on "Access Control and Security in Collaborative System".

CERTIFICATIONS

- **Red Hat Certified Engineer** (Certification Number – 120-101-563)
- **Red Hat Certified Administrator** (Certification Number – 120-101-563)

SKILLS

- **Technical Skills**
Programming (C, C++, Java, Python), Operating Systems (Linux and Windows), Web Development (PHP, JSP, MySQL, Facebook Graph API), Security Tools (Burp Suite, Nessus, NMap, Volatility), Network Security, Cryptography
- **Language Skills**
Hindi (Native Speaker), English (Fluent), Spanish (Basic)

ACHIEVEMENTS

- **HopHacks 2013** - Won the third prize and best hack with Facebook integration at a Hackathon at JHU for developing an application "Facebook concerts", which can allow Facebook users to organize concerts and manage them.