Alexander Chopra

RESUME

Leadership, Software Development, PHP, .NET, MSSQL, Policy Development, Digital Forensic Examination, Systems Hardening, Secure Application Development, Compliance Analysis, Research & Vulnerability Analysis, Technical Writing

Mr. Chopra brings with him experience in cybersecurity skills, compliance, hardening, policy development as well as critical thinking and leadership skills. He has experience in creation and maintenance of web based PHP and .NET based applications that are responsive and built upon MySQL or MSSQL databases. He has provided technical leadership and writing both in the realm of IT and cybersecurity to corporations in the tri-state area. He has made significant contributions to the Bean project (BUMED) in system hardening and automated intrusion detection systems. Mr. Chopra is an expert with all Windows variants (including server administration), Linux/Unix systems (e.g. Kali, Red Hat, Solaris, etc.), Apache, SSH, Wireshark, metasploit, networking, the Microsoft Office suite and other application packages as well as being a quick learn in regard to new tools.

Education				
Degree Type	**Subject of Degree**	**School of Degree**	**Start**	**End**
Bachelors of Science	Information Systems	Rochester Institute of Technology	2008	2012
Master of Science	Cybersecurity	University of Maryland University College	2012	2014
Master of Business Administration	Business Administration	University of Maryland University College	2015	2016
Master of Science	Information Assurance	University of Maryland University College	2016	2017
Member of the International Honor Society for the Computing and Information Disciplines at Maryland				

Certifications		
Name of Certification	**Subject of Certification**	**Completion**
CompTIA A+	General Information Systems	2008
CompTIA Security+	General IT Security	2008

Professional Experience		
Strategic Technology Institute Inc.	**Chief Executive Officer**	**Present**

Professional Experience		
Strategic Technology Institute Inc.	**Cybersecurity/Software Development**	**From 2012**

Mr. Chopra acts as the Senior Software Developer for STi, specializing in PHP and web based applications. Mr. Chopra focuses on secure application development for web based applications with emphasis on PHP and .NET applications. He has developed multiple web based applications utilizing secure code methodologies, PHP and .NET, powered by MySQL or MSSQL databases. Mr. Chopra has published writings analyzing current cybersecurity problems and implementations within networking and applications, available on our website. A few examples of papers published include RTLO vulnerabilities within WinRAR, DNS rebinding, DNS spoofing, ARP cache poisoning and an analysis on web application intrusions and their rise within the industry. Sample publications include: “Man in the Middle (MITM) Arp Cache Poisoning Explained” and “Man in the Middle (MITM) DNS Spoofing Explained.” Mr. Chopra gained experience regarding deployment of DirectAccess into Amazon Web Services’ GovCloud environment on a distributed system and mitigating threats; relevant to the aforementioned BUMED security project. In addition to his writings, Mr. Chopra has been actively developing IDS signatures to identify and prevent malicious activity seen within a lab environment for production testing and utilization.

Professional Experience		
Strategic Technology Institute Inc.	**IT Lead**	**2008-2012**

As the IT Lead, Mr. Chopra’s responsibilities included: network security, systems hardening and preparation, server maintenance, active directory configuration and administration as well as verification of backup media before being put into storage. He also provided and developed a strategic plan in relation to the handling of data and application security for the C-BRAT web based tool. He acted as a junior software developer on the C-BRAT web conversion project. Assessments were made of the desktop based tool and recommendations were made and incorporated to increase the level of security and reliability of the tool during the development process of the web based version. Mr. Chopra also drafted and executed incident response plans, disaster recovery plans, and continuity of operations plans in order to enhance system security documentation and system reliability. He received an award for exemplary contributions in both IT advances and security efforts from STi.

Professional Affiliations	
Name of Community	**Description & Topics**
IEEE Computer Society	Computer and information processing science and technology advances
IEEE Information Theory Society	Foundations of communication processes including IT and cryptology
CompTIA IT Security Community	Discussion & evaluation of new technology used in the IT security field
CompTIA Cloud Community	Cloud innovations & applications to current IT and security solutions

Mr. Chopra regularly attends conferences and seminars in the IT and cybersecurity field. He maintains similar tech/security inspired hobbyist websites and is actively working on continuing education as well as gaining IT/Security related certifications.