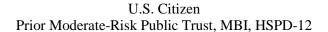
### G. S. MCNAMARA, M.S.

Principal Cyber Security Engineer and Researcher, Threat Intelligence Founder, White Hat Hacker





#### **EDUCATION & CERTIFICATIONS**

M.S. Applied Information Technology: Concentration in Intelligence Technologies B.S. Information Technology: Concentration in Information Security, Minor in Business

George Mason University: Volgenau School of Engineering, and School of Business

VMware Certified Associate - Cloud (VCA-Cloud), VMware Certified Associate - Workforce Mobility (VCA-WM), CompTIA A+, CompTIA Network+, CompTIA Security+, Data Scientist's Toolbox course from the Data Science Specialization track by Johns Hopkins University

#### RECOGNITION

Select articles covering independent security research and application development:

- http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2014-4958
- http://www.theregister.co.uk/2014/10/01/researcher\_details\_nasty\_xss\_flaw\_in\_popular\_web\_editor/
- http://www.theregister.co.uk/2013/11/28/thousands\_of\_ror\_sites\_leave\_logins\_lying\_around/
- https://threatpost.com/security-issue-in-ruby-on-rails-could-expose-cookies/102413/
- https://threatpost.com/ruby-on-rails-cookiestore-vulnerability-plagues-prominent-websites/103038/
- https://threatpost.com/security-vulnerability-in-django-could-allow-attackers-access-to-cookies/102501/
- https://blog.whitehatsec.com/adding-open-source-framework-hardening-to-your-sdlc-podcast/

#### **EXPERIENCE**

### **Principal Cyber Engineer**

2015 - Present

Forcepoint, formerly Raytheon | Websense

Founding member of the Global Product Security Incident Response Team (PSIRT). Forcepoint is the synthesis of Raytheon Cyber Products, Websense, Trusted Computer Solutions, Oakley Networks, Visual Analytics, Stonesoft, and Sidewinder.

Founder 2009 – Present

**Incless LLC**, formerly G. S. McNamara & Co. (DBA)

Focusing on venture projects and offering specialized IT, Web logistics, design, marketing, mobile application, SEO, and security services to clients.

- ETL of legacy contact database and operating system password override
- Design, develop, and market internal research and development projects

# Founder, Application-Level Security and Threat Intelligence Disrupt6

2015 - 2016

Disrupt6, originating from MACH37, is the source for threat intelligence and next generation security for the next generation Internet.

#### Senior Consultant, Application Security Engineer

2014 - 2015

CGI Federal Inc., a wholly owned U.S. operating subsidiary of CGI Group, Inc.

White hat hacker member of CGI Federal's Emerging Technologies Security Practice (ETSP) serving multiple business units.

- Researched and made recommendations based on current industry trends and extensive network of contacts
- Participated in Security Controls Assessments and audits, and the Certification and Accreditation Process
- Web application security pentesting/hacking and risk/impact/vulnerability assessments as project leader
- Guided technical remediation, research, and advised on identified vulnerabilities
- Conducted proposal and business development work

Technical Co-Founder 2013 – 2015 En Route Security LLC

Based in McLean, Virginia, En Route Security specialized in mobile personal security for iOS and Android.

- Device-agnostic application development using PhoneGap / Apache Cordova
- Mobile backend as a service (MBaaS) development

#### Senior Consultant, Senior Analyst, Web Applications Developer Communications Training Analysis Corp. (CTAC)

2012 - 2014

Designed, developed, and deployed Ruby on Rails MVC framework and Drupal applications with REST API architecture for federal clients in an Agile and DevOps environment. Planned, executed, and supervised the immediate or overnight implementation and deployment to a cloud environment acting as a systems administrator. Independently received, evaluated, and responded to security vulnerability reports, then implemented fixes. Communicated lessons learned back to development team and client for secure coding best practice development.

- Object-oriented business logic implementation, database design, and object-relational mapping (ORM)
- JavaScript, AJAX, API interaction, and error handling using HTTP status codes and JSON responses
- Apache Solr (Apache Lucene) open source enterprise search platform integration
- Basic FISMA and FedRAMP familiarity

### **Research Engineer / Intern** (extension)

2010 - 2012

Invincea Labs, Invincea, Inc.

Researched and demonstrated zero-day exploits. Research projects included the DARPA CyNomiX Cyber Genome Program, NetGator network proxy-based malware detection for the Army Research Office, DLL hijacking, and malicious PDFs and Microsoft Office documents. Interfaced with research team at Center for Secure Information Systems at George Mason University as well as our partner product development team.

- Created project Paladin: Implemented a Python-based system of distributed, isolated clients testing tens of thousands of potentially-malicious URLs supplied by Google SafeBrowsing API daily against Invincea secure web browser. Recorded and synced all results in local and remote databases, managing state.
- Developed an online Labs Portal to provide real-time information and malicious in-the-wild exploit examples to distributed sales and marketing teams and VIP customers.
- Assisted in design and implementation of end-to-end, multiphase, parallel system of servers to process 3 terabytes of malware for Cyber Genome using multi-threaded Python programming
- Programmatically cataloged malware sets from different sources using industry antivirus labels and taxonomy
- Worked with sandboxes and virtual machines using VMware, VirtualBox, Sandboxie

# **Software Development / Quality Assurance Intern** (summer) **Invincea, Inc.**

2010 - 2010

Evaluated effectiveness of flagship product Invincea Browser Protection against proprietary, wild, and purchased malicious software. Examined behavior of malware, secure web browser, and host operating system, and tracked successful exploitations. Collected test results and generated security-specific quality assurance reports for review by company executives.

- Developed web application integrating Google Visualization API to display test results and host malware samples for automated access by testing framework
- Tested vulnerabilities in secure web browser and generated malicious PDFs for demonstrations
- Created and recorded demonstrations of the product in use and under attack for broadcast on CNN

## Lead Web Developer and Project Manager (contract)

2009 - 2010

Copyright Resources Office, George Mason University

Designed, implemented, and tested entirely new website for the Copyright Resources Office (CRO) under the direct supervision of the University Copyright Officer. Acted as manager of the entire project.

## Consultant: Tech, Social Media, and Marketing

2008 - 2012

### Scott A. McNamara, M.D., and Washington ENT Group

Processed confidential patient medical records into digital form. Handled problems with the computer network and conducted research in order to advise on technical needs and problems.

MaverickBlogging.com | LinkedIn.com/in/GSMcNamara | Twitter.com/GSMcNamara | Facebook.com/GSMcNamaraMS

## G. S. MCNAMARA, M.S.

# Automotive Electrical Systems Specialist Graphics-N-Tints LLC

2008 - 2008

Familiarity with internal communication systems messaging protocol useful for application in securing vehicle-to-infrastructure (V2I) Department of Transportation (DOT) and autonomous vehicle Internet of Things (IoT) initiatives.

Applications and Frameworks   Fortify; AppScan; Burp Suite; ASP,NET; ASP, Ruby on Rails; Django; Metasploit; Social Engineering Toolkit; Whware; VirtualBox; Wireshark; Eclipse; Apache HTTP Server; Nginx; LAMP; XAMPP; D3.js	Languages	Ruby, Python, XML, JSON, CSS, PHP, SQL, Java, JavaScript, C#, I	HTML5	
Social Engineering Toolkit; VMware; VirtualBox; Wireshark; Eclipse; Apache HTTP Server; Nginx; LAMP; XAMPP; D3.js   Databases	<b>Operating Systems</b>	Kali, Linux, OS X, Microsoft Windows, Android		
Databases	Applications and Frameworks	Social Engineering Toolkit; VMware; VirtualBox; Wireshark; Eclips		
Content Management Systems   WordPress, Drupal, JIRA, Redmine, Joomla, Trac, CommonSpot	Databases	· · ·		
Networking Bro IDS, LAN/WLAN/WAN, TCP/IP, Data Encryption, Bluetooth, FTP, SMTP, POP3, IMAP, SMB, SSL, DNS, Cisco  ACTIVITIES  Guest Lecturer: Cyber Intelligence Institute, and Cyber Statecraft, The Institute of World Politics 2015 - Present Appointed Intelligence Analyst Fellow of the Private Sector, IC Analyst-Private Sector Program, Office of the Director of National Intelligence (ODNI), and Department of Homeland Security (DHS)	<b>Content Management Systems</b>			
ACTIVITIES  Guest Lecturer: Cyber Intelligence Institute, and Cyber Statecraft, The Institute of World Politics 2015 - Present Appointed Intelligence Analyst Fellow of the Private Sector, IC Analyst-Private Sector Program, Office of the Director of National Intelligence (ODNI), and Department of Homeland Security (DHS)	APIs		ST, Amazon	
Guest Lecturer: Cyber Intelligence Institute, and Cyber Statecraft, The Institute of World Politics 2015 - Present Appointed Intelligence Analyst Fellow of the Private Sector, IC Analyst-Private Sector Program, Office of the Director of National Intelligence (ODNI), and Department of Homeland Security (DHS)	Networking		FTP, SMTP,	
Appointed Intelligence Analyst Fellow of the Private Sector, IC Analyst-Private Sector Program, Office of the Director of National Intelligence (ODNI), and Department of Homeland Security (DHS)				
Director of National Intelligence (ODNI), and Department of Homeland Security (DHS)	-	•		
Speaker: "Cyber Intent: Cybersecurity", Security B-Sides Washington DC, and Security BSides Delaware		•		
Speaker: "The Next APT: Advanced, Persistent Tracking", (ISC) <sup>2</sup> CyberSecureGov	E	• • • •		
Member, Cyber Tech Symposium Planning Committee, AFCEA Bethesda Chapter2014Contributor, MITRE Common Weakness Enumeration (CWE), Common Vulnerabilities and Exposures (CVE),WhiteHat Security, Inc.WhiteHat Security, Inc.2013 - 2014Speaker and Contributor, NoVA Hackers2013 - 2014Council Member as well as Global & Chapter Member, DC Chapter, Internet Society (ISOC)2011 - 2014Member, Armed Forces Communications and Electronics Association (AFCEA), IEEE-GMU2009 - 2014Founding Co-President, Electrical & Computer Hacking Organization (ECHO)2010 - 2013Founding President & Webmaster, Information Society Movement (ISM)2009 - 2013President & Webmaster, Mason Entrepreneurs2009 - 2013International Panelist, Social Media Impact, Global INET 2012 - Geneva, Switzerland, Internet Society2012Participant, National Collegiate Cyber Defense Competition2011Panelist, Lifestyle Hacking panel, Cybersecurity in a Transparent World, George Mason University2010AWARDSIEEE Student Paper and Presentation Competition2013Undergraduate Service Award, AIT Department, Volgenau School of Engineering2013Science, Mathematics, And Research for Transformation Defense Scholarship for Service Program (SMART), American Society for Engineering Education (ASEE) & Department of Defense (DoD)2011AFCEA NOVA Scholarship Program2010 - 2013Schorling Award, AIT Department, Volgenau School of Engineering2009	- •			
Contributor, MITRE Common Weakness Enumeration (CWE), Common Vulnerabilities and Exposures (CVE), WhiteHat Security, Inc	Speaker: "The Next APT: Advanced, Persistent Tracking", (ISC) <sup>2</sup> CyberSecureGov			
WhiteHat Security, Inc	Member, Cyber Tech Symposium Planning Committee, AFCEA Bethesda Chapter			
Speaker and Contributor, NoVA Hackers	Contributor, MITRE Commo	on Weakness Enumeration (CWE), Common Vulnerabilities and Expos	sures (CVE),	
Council Member as well as Global & Chapter Member, DC Chapter, Internet Society (ISOC)	WhiteHat Security, Inc			
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Founding Co-President, Electrical & Computer Hacking Organization (ECHO)	Council Member as well as Global & Chapter Member, DC Chapter, Internet Society (ISOC) 2011 - 2			
Founding President & Webmaster, Information Society Movement (ISM)	Member, Armed Forces Communications and Electronics Association (AFCEA), IEEE-GMU			
Founding President & Webmaster, Information Society Movement (ISM)	Founding Co-President, Electrical & Computer Hacking Organization (ECHO)			
President & Webmaster, Mason Entrepreneurs				
International Panelist, Social Media Impact, Global INET 2012 - Geneva, Switzerland, Internet Society	•			
Participant, National Collegiate Cyber Defense Competition		•		
AWARDS  IEEE Student Paper and Presentation Competition				
IEEE Student Paper and Presentation Competition	_	*		
Undergraduate Service Award, AIT Department, Volgenau School of Engineering	AWARDS			
Science, Mathematics, And Research for Transformation Defense Scholarship for Service Program (SMART), American Society for Engineering Education (ASEE) & Department of Defense (DoD)	IEEE Student Paper and Presentation Competition			
American Society for Engineering Education (ASEE) & Department of Defense (DoD) 2011  AFCEA NOVA Scholarship Program 2010 - 2013  Schorling Award, AIT Department, Volgenau School of Engineering 2009	Undergraduate Service Award, AIT Department, Volgenau School of Engineering			
AFCEA NOVA Scholarship Program	Science, Mathematics, And I	Research for Transformation Defense Scholarship for Service Prog	gram (SMART),	
Schorling Award, AIT Department, Volgenau School of Engineering	American Society for Enginee	ring Education (ASEE) & Department of Defense (DoD)	2011	
Schorling Award, AIT Department, Volgenau School of Engineering	AFCEA NOVA Scholarship Program			
	Schorling Award, AIT Department, Volgenau School of Engineering			
	Innovation Award, Office of Student Activities, George Mason University			