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## INDUSTRY EXPERIENCE

### HARVARD UNIVERSITY – NETWORK AND SERVER SYSTEMS

Cambridge, MA

#### *Network Services Architect*

July 2009 to Present

- Deployed and managed QRadar SIEM monitoring over 5Gbps of traffic and ~1500 events/second
- Implemented highly-available and modular authentication architecture for 802.1x, NAC, and VPN interfacing with University identity management system
- Consolidated NOC resources using virtualization, automation, and configuration management technologies

### HARVARD UNIVERSITY – NETWORK AND SERVER SYSTEMS

Cambridge, MA

#### *Security Manager*

February 2005 to July 2009

- Facilitated creation of NOC Customer Portal – a unified, role-based interface to NOC services, statistics, and data
- Deployed network access control (NAC) across student networks
- Coordinated incident response and forensics within NSS
- Co-chair of ABCD Security Working Group
- Recipient of three “Harvard Hero” awards (2003 to Present)
- Architected PCI DSS compliant infrastructures to facilitate e-commerce and point-of-sale transactions
- Integrated two-factor authentication into existing business processes

### HARVARD UNIVERSITY – NETWORK OPERATIONS CENTER

Cambridge, MA

#### *Senior Network Security Engineer*

November 2000 to February 2005

- Provided security audits and vulnerability scans to University community
- Evaluated and deployed 802.11 wireless networking
- Implemented change management system for all network device configurations
- High-bandwidth, asymmetric anomaly and signature-based network IDS deployment
- Implemented and administered Harvard IPv6 demonstration network
- Technical contact on University VoIP pilot program

## TAOS

Cambridge, MA

#### *Systems Administrator*

August 2000 to November 2000

- Audited and secured UNIX systems.
- Defined and implemented initial system build procedures
- Mentored junior consultants and created training materials to enhance knowledge transfer

### HARVARD UNIVERSITY – NETWORK OPERATIONS CENTER

Cambridge, MA

#### *Systems Engineer*

November 1997 to August 2000

- Created security policies and procedures for Network Operations Center
- Wrote and maintained software to administer e-mail aliases for all Harvard employees
- Designed, implemented, and maintained university-wide IDS infrastructure
- Deployed VPN solution to Harvard community
- Built RedHat kickstart and Sun Jumpstart build environments
- Developed DNS zone management system for Harvard namespace

## TEACHING EXPERIENCE

### NORTHEASTERN UNIVERSITY

Boston, MA

#### *Lecturer*

IA-5130: Computer Systems Security (in-class and on-line)

September 2009 to Present

### HARVARD UNIVERSITY – EXTENSION SCHOOL

Cambridge, MA

#### *Teaching Fellow*

CSCI E-170: Security, Privacy, and Usability

September 2006 to Present

CSCI E-132: Advanced Topics in Data Networking

January 2003 to Present

CSCI E-135: Computer Networks and Network Programming

September 2002 to January 2003

CSCI E-131b: Communication Protocols and Internet Architectures

June 2002 to January 2003

## EDUCATION

### NORTHEASTERN UNIVERSITY

College of Computer Science  
Masters in Information Assurance

Boston, MA  
September 2006 to May 2009

### NORTHEASTERN UNIVERSITY

College of Computer Science  
Bachelor of Science in Computer Science, 2000

Boston, MA  
September 1995 to June 2000

## TECHNOLOGIES

**Languages:** Perl, UNIX shell scripting, HTML, PHP, SQL  
**Operating Systems:** RHEL/CentOS, OS X, IOS, Windows Server 2003/2008, Solaris  
**Software:** Apache, MySQL, Postfix, Cisco Network Registrar, ISC DHCP/BIND, Infoblox DNS/DHCP, MRTG/RRD, RANCID, VMware ESX/vSphere, KVM, Puppet  
**Security Devices/Software:** Snort, Q1Labs QRadar, Splunk, Cisco WCS/WLC, Cisco ASA/FWASM/PIX, OpenLDAP, RADIUS/TACACS+ (Cisco ACS, Radiator), Arbor Peakflow, Nessus, RSA Authentication Manager, ModSecurity  
**Networking:** OSPF, BGP4, IPv6 deployment, high-performance network monitoring, wired/wireless 802.1x, PCI DSS-compliant architectures, network access control (NAC), Cisco Nexus 1000v, Cisco routing/switching hardware

## PROJECTS

**PacketFence** Open-source network access control (NAC) solution  
<http://www.packetfence.org> Co-creator and lead architect  
Acquired by Inverse Inc., May 2008

## CERTIFICATIONS

Certified Information Systems Security Professional  
Red Hat Certified Engineer

## PROFESSIONAL AFFILIATIONS

ISSA (Information Systems Security Association)  
InfraGard