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## INDUSTRY EXPERIENCE

### HARVARD UNIVERSITY – NETWORK AND SERVER SYSTEMS

Cambridge, MA

#### *Security Manager*

February 2005 to Present

- 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
- Implemented 802.1x authentication against varied authentication sources across wired and wireless networks

### HARVARD UNIVERSITY – NETWORK OPERATIONS CENTER

Cambridge, MA

#### *Senior Network Security Engineer / Network Engineer*

September 2001 to February 2005

Responsibilities included those detailed below in addition to:

- Provided security audits and vulnerability scans to University community.
- Evaluated and deployed 802.11 wireless networking.
- Implemented change management system for all network element configurations.
- High-bandwidth, asymmetric anomaly and signature-based IDS deployment.

### HARVARD UNIVERSITY – NETWORK OPERATIONS CENTER

Cambridge, MA

#### *Network Engineer*

November 2000 to September 2001

- Designed and implemented H.323 conferencing zone for use by Harvard and affiliated institutions.
- Implemented and administered Harvard IPv6 demonstration network.
- Technical contact on University VoIP pilot program.
- Chair of Harvard University ABCD Video Conferencing Working Group.
- Assisted in the maintenance and administration of the Northern Crossroads (NoX), an Internet2 gigaPOP.

## TAOS

Cambridge, MA

#### *Systems Administrator*

August 2000 to November 2000

- Audited and secured client UNIX systems.
- Defined and implemented initial system build procedures for Sun Enterprise-class hardware.
- Mentored junior consultants and created training materials to enhance knowledge transfer.

### HARVARD UNIVERSITY – NETWORK OPERATIONS CENTER

Cambridge, MA

#### *Senior Network Security Engineer*

August 1999 to August 2000

- Created security policies and procedures for Network Operations Center.
- Advised Harvard community on security issues and effective preventative measures.
- Designed, implemented, and maintained university-wide IDS infrastructure.
- Rolled out Cisco VPN solution to Harvard community.
- Built RedHat kickstartion and Sun Jumpstart build environments

### HARVARD UNIVERSITY – NETWORK OPERATIONS CENTER

Cambridge, MA

#### *Systems Engineer*

November 1997 to August 1999

- Wrote and maintained software to administer e-mail aliases for all Harvard employees
- Migrated and maintained the Harvard NNTP (news) server and web hosting service.
- Developed DNS zone management system for Harvard namespace.
- Designed and implemented security policy for internal Network Operations subnets.

## TEACHING EXPERIENCE

### 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, C  
**Operating Systems:** Solaris, RedHat Enterprise Linux, OS X, IOS, Windows 2000/2003/XP  
**Software:** ISC DHCP/BIND, Apache, Postfix, MySQL, Cisco Network Registrar, MRTG/RRD, RANCID, VMware Server/ESX, Infoblox DNS/DHCP  
**Security Devices/Software:** Snort, Q1 Labs qRadar, LogLogic, Cisco WLC, Bluesocket, Cisco 30x0 VPN, Cisco ASA 55x0-series, Cisco PIX/FSWM, RADIUS (Cisco ACS, Radiator), OpenLDAP, TACACS+, Arbor Peakflow, Nessus, RSA Authentication Manager, ModSecurity  
**Networking:** OSPF, BGP4, MPLS, voice and video over IP, high-performance network monitoring, PCI DSS-compliant architectures, network access control (NAC), wired/wireless 802.1x

## PROJECTS

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

**FingerBank** Open-source repository of DHCP fingerprints  
<http://www.fingerbank.org> Presented at Black Hat Japan 2007  
Assumed by Inverse Inc., February 2008

## CERTIFICATIONS

Certified Information Systems Security Professional  
Red Hat Certified Engineer

## PROFESSIONAL AFFILIATIONS

ISSA (Information Systems Security Association)  
InfraGard