

Blayne Dreier

Network and Software Security Engineer

Phone: **980-254-6961**

Website: <http://www.blaynedreier.com>

Email: blayne@blaynedreier.com

Summary

- 2+ years of DevOps experience
- 2+ years of product and software security evaluation
- 8+ years of Cisco TAC experience with knowledge of how to handle cases correctly and efficiently
- BS in Computer Science with concentrations in math and business
- Quick and enthusiastic about learning absolutely anything
- Well-traveled with interests spanning across and beyond the tech world

Profile

- Experience recreating and troubleshooting Cisco networks.
- Experience evaluating Cisco products for security vulnerabilities.
- On-site experience working with teams to plan installations and solve problems.
- Attentive to detail, strong-willed, self-correcting, and perceptive.
- Ability to stay focused on large projects until completion.
- Motivated with a high aptitude for learning skills quickly.
- Able to maintain high energy. Worked 45-50 hours per week while attending school full-time.
- Effectively manage many different responsibilities simultaneously.

CISSP #442524

ISC2

IOS, Cisco Routers/Switches/Firewalls, ASA, Zone-Based Firewall, IOS-FW, DDoS, IDS/IPS, IOS-IPS, IDSM-2, NAC, ACS, CSM, CSA, Python, Java, C, C++, PHP, HTML, Javascript, XML, Windows, Linux, OSX, SQL, TCP/IP, Wireshark, OWASP, VMware VSphere ESX/ESXi

SKILLS

PUBLICATIONS

Patents

Method and apparatus for identifying a physical link interconnecting network devices

Issued

<https://www.google.com/patents/US8675496>

Visualization of Question and Related Informational Item Data

Pending

<https://www.google.com/patents/US20140146051>

Automatic correlation of dynamic system events within computing devices

Pending

<https://www.google.com/patents/US20140172919>

Method and system for delegating administrative control across domains

Pending

Kinetic event detection in microphones

Pending

<https://www.google.com/patents/US20140270275>

Visualizing a network connection's overall health and providing actionable information

Published

<http://ip.com/IPCOM/000223070>

Method for detection and indication of audio stream degradation in Voice over IP telecommunication sessions

Published

<http://ip.com/IPCOM/000239553>

CVEs

CVE-2014-0667

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0667>

The RMI interface in Cisco Secure Access Control System (ACS) does not properly enforce authorization requirements, which allows remote authenticated users to read arbitrary files via a request to this interface, aka Bug ID CSCud75169.

CVE-2014-0656

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0656>

Cisco Context Directory Agent (CDA) allows remote authenticated users to trigger the omission of certain user-interface data via crafted field values, aka Bug ID CSCuj45353.

CVE-2014-0655

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0655>

The Identity Firewall (IDFW) functionality in Cisco Adaptive Security Appliance (ASA) Software allows remote attackers to change the user-cache contents via a replay attack involving crafted RADIUS Change of Authorization (CoA) messages, aka Bug ID CSCuj45332.

CVE-2014-0654

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0654>

Cisco Context Directory Agent (CDA) allows remote attackers to modify the cache via a replay attack involving crafted RADIUS accounting messages, aka Bug ID CSCuj45383.

CVE-2014-0652

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0652>

Cross-site scripting (XSS) vulnerability in the Mappings page in Cisco Context Directory Agent (CDA) allows remote attackers to inject arbitrary web script via a crafted URL, aka Bug ID CSCuj45358.

CVE-2014-0651

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0651>

The administrative interface in Cisco Context Directory Agent (CDA) does not properly enforce authorization requirements, which allows remote authenticated users to obtain administrative access by hijacking a session, aka Bug ID CSCuj45347.

CVE-2014-0649

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0649>

The RMI interface in Cisco Secure Access Control System (ACS) 5.x before 5.5 does not properly enforce authorization requirements, which allows remote authenticated users to obtain superadmin access via a request to this interface, aka Bug ID CSCud75180.

CVE-2013-5541

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2013-5541>

Cross-site scripting (XSS) vulnerability in the file-upload interface in Cisco Identity Services Engine (ISE) allows remote authenticated users to inject

arbitrary web script or HTML via a crafted filename, aka Bug ID CSCui67495.

CVE-2013-5540

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2013-5540>

The file-upload feature in Cisco Identity Services Engine (ISE) allows remote authenticated users to cause a denial of service (disk consumption and administration-interface outage) by uploading many files, aka Bug ID CSCui67519.

CVE-2013-5539

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2013-5539>

The upload-dialog implementation in Cisco Identity Services Engine (ISE) allows remote authenticated users to upload files with an arbitrary file type, and consequently conduct attacks against unspecified other systems, via a crafted file, aka Bug ID CSCui67511.

CVE-2013-5538

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2013-5538>

The Sponsor Portal in Cisco Identity Services Engine (ISE) uses weak permissions for uploaded files, which allows remote attackers to read arbitrary files via a direct request, aka Bug ID CSCui67506.

CVE-2012-5736

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2012-5736>

** RESERVED ** This candidate has been reserved by an organization or individual that will use it when announcing a new security problem. When the candidate has been publicized, the details for this candidate will be provided.

CVE-2012-5035

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2012-5035>

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PROJECTS

Customer Engagement

Public documentation

Applying different IPS policies to specific flows with the AIP-SSM

<https://supportforums.cisco.com/blog/149951/applying-different-ips-policies-specific-flows-aip-ssm>

Cut-Through and Direct ASA Authentication

<http://www.cisco.com/c/en/us/support/docs/security/asa-5500-x-series-next-generation-firewalls/113363-asa-cut-through-config-00.html>

Forum participation

<https://supportforums.cisco.com/users/cdreier>

Media

TAC Security Podcast

<https://supportforums.cisco.com/document/48396/tac-security-podcast-show-information-and-episode-listing>

Cisco IPS Software

<https://supportforums.cisco.com/video/11927661/cisco-ips-software>

TAC IPS Media Series

<https://supportforums.cisco.com/document/48896/tac-ips-media-series-show-information-and-episode-listing>

Tools

Zone-based Firewall Configuration Parser

<https://www.blaynedreier.com/zbf/>

EXPERIENCE

Cisco Systems (Austin, TX)

March 2012 to January

Security Researcher

2014

- Perform security evaluations for Cisco products
- Review source code for security vulnerabilities
- Create defect reports to communicate security vulnerabilities to development
- Consolidate supporting security collateral to drive security vulnerabilities to resolution
- Work directly with development to resolve discovered vulnerabilities
- Test and verify fixes for resolved vulnerabilities
- Report to executive management about evaluation progress and outcome
- Lead and coordinate a team of security researchers to evaluate a product
- Write proof-of-concept code to validate vulnerabilities
- Create videos of vulnerability exploitation to drive security vulnerabilities to resolution

Cisco Systems (Richardson, TX)

August 2010 to March

TAC Security Escalation

2012

- Presented an 8-hour techtorial covering Cisco security products at Cisco Live
- Act as the last point of global escalation for customer cases involving Cisco security products
- Act as the global liaison for TAC-to-developer communication regarding software defects
- Assist in supplying fixes for software defects described in TAC-generated defect reports
- Lead Cisco CCIE Security training for TAC engineers
- Make significant contributions to internal and external technical written and video documentation

Cisco Systems (Richardson, TX)

March 2009 to August

TAC Security Technical Lead

2010

- Speaker at Cisco Live
- Assist TAC security team with significantly complex and difficult cases
- Assist high-profile customers in resolving network down scenarios
- Review and refine defects filed against Cisco security products
- Mentor new employees on practices and technology training.
- Provide technology training to other teams within Cisco.
- Review and publish technical documentation for internal and external use.

Cisco Systems (RTP, NC)

May 2005 to March

TAC Security Engineer

2009

- Troubleshoot customer networks in the area of system security.
- Resolve cases dealing with Firewall, IDS, VPN, and AAA.
- Work in groups with other engineers to solve customer network complications.
- Use recreation of a customer network to resolve issues hands-on.
- Give presentations on common attack tools and methods.
- Investigate software defects and file reports for resolution.

Cisco Systems (RTP, NC)

August 2004 to January

Co-op/Pseudo-Engineer

2005

- Troubleshoot customer networks in the area of system architecture.
- Resolve system crashes, memory leaks, and high CPU utilization.
- Attend engineering trainings to better develop knowledge in Cisco system architecture.
- Surf IOS C code to find and repair software related bugs.
- Communicate problem and resolution to customer via various channels.
- Communicate with software development engineers to resolve code instabilities.

Cisco Systems (RTP, NC)

January 2004 to May

Co-op/Network Recreation and Engineering

2004

- Recreate customer networks for engineering and troubleshooting.
- Build an understanding of the hardware architecture of nearly every Cisco platform.
- Become familiar with Cisco IOS commands, configuration and environment.
- Obtain Cisco CCNA certification.
- Conduct weekly lab audits to assure cleanliness and order.
- Help to maintain inventory of more than ten thousand Cisco machines and modules.
- Monitor a case queue of engineer-submitted recreate cases.
- Attend weekly training sessions to further conceptual and practical networking knowledge.
- Mentor incoming co-ops and transfer knowledge learned from previous rotations.

Appalachian State University (Boone, NC)

June 2001 to June 2002

Network Analyst/Software Administrator

- Install software packages for both faculty and student use.
- Obtain an understanding of schools network system and analyze traffic and usage.
- Assume liability of computer system security.
- Design software configurations for use by students and library staff.
- Troubleshoot and diagnose computer system malfunction.
- Provide assistance to others with personal computer problems.
- Repair malfunctioned computer and printer hardware.

Best Buy Corp. 175 (Gastonia, NC)

June 2000 to March

Mobile Audio/Video Installation Technician

2001

- Install mobile amplifiers, speakers, decks, television monitors, and alarms.
- Obtain an understanding of every car make and model's interior construction and wiring schematics.
- Assume liability while driving customers' cars into bay and throughout installation.
- Design and build component mobile audio and video systems.
- Troubleshoot and diagnose automobile electronic system malfunction.
- Track daily and weekly progress, competing with previous personal

numbers and other stores.

Best Buy Corp. 175 (Gastonia, NC)

July 1999 to May 2000

In-Store & On-Site Audio/Video/Computer Repair Technician

- Perform preventative maintenance, bench repair, diagnosis and parts ordering.
- Conduct in-house and on-site customer equipment orientation, training, and repair.
- Diagnose silicon boards to component level, soldering and replacing parts as needed.
- Maintain and repair test facilities and grounds.
- Complete electrical wiring and component installation from the ground up for industrial and personal computer networks.
- Support Internet providers by providing technical assistance with routers and other equipment.
- Utilize signal generators, AC/DC volt, ohm and amp meters (fluke), oscilloscope, and other precision measuring instruments.
- Attend technical conferences and seminars to stay informed about product developments.
- Prepare detailed documentation recording the repairs needed and test log information.
- Establish workload schedules, repairs priorities and assigned specific duties to personnel.
- Report weekly and monthly to regional manager, providing written and oral reports.

Best Buy Corp. 235 (Corpus Christi, TX)

*September 1998 to April
1999*

In-Store & On-Site Audio/Video/Computer Repair Technician

- Perform preventative maintenance, bench repair, diagnosis and parts ordering.
- Conduct in-house and on-site customer equipment orientation, training, and repair.
- Diagnose silicon boards to component level, soldering and replacing parts as needed.
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EDUCATION

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- Prepare detailed documentation recording the repairs needed and test log information.
- Establish workload schedules, repairs priorities and assigned specific duties to personnel.
- Report weekly and monthly to regional manager, providing written and oral reports.

University of North Carolina at Charlotte

*August 2002 to May
2005*

Bachelor of Science, Computer Science

- Graduated with honors
- Related concentrations in Math and Business