

SHAWN M. JONES

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**SECURITY
CLEARANCE**

US Secret

EXPERIENCE

**Space and Naval Warfare Systems Center, Norfolk
(SPAWARSYSCEN Norfolk)
Norfolk, VA
May 1997 to Present
Computer Scientist**

Systems/Software Engineering Experience

- ❖ Used Hibernate to maintain legacy database mappings to be translated later via higher tiers
 - ❖ Used Spring for Dependency Injection within JEE applications
 - ❖ Worked with team to create multi-tiered JEE application infrastructure consisting of Data Access Layers, a Service Layer, and Web Services
 - ❖ Using AutoIt and InnoSetup, wrote program to handle the installation and upgrade of software packages for developer workstations
 - ❖ Wrote disk backup system in BASH/Python
 - ❖ Developed DoDAF views for One NALCOMIS aviation management system
 - ❖ Corrected memory allocation mistakes in Boost C++ Filesystem Library for Solaris
 - ❖ Wrote additional functionality into the following products for new platforms:
 - Bar Code Supply (BCS) – using C++
 - Naval Tactical Command Support System (NTCSS) – using C
 - ❖ Translated regulations to concise software requirements for the following products:
 - NTCSS
 - Shipboard Non-tactical Automatic Data Processing Automated Medical System (SAMS)
 - OOMA
 - Expeditionary Pack Up Kit (EPUK)
 - BCS
 - ❖ Wrote Use Cases for the following products:
 - EPUK
 - BCS
 - ❖ Wrote Intrusion Reporting System in PERL
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EXPERIENCE
(continued)

- ❖ Assisted in the development of system design documents for the following products:
 - Organizational Maintenance Management System for the Next Generation (OMMS-NG)
 - Relational Supply (RSupply)
 - Organizational Maintenance Activity (OMA)
 - Relational Administration (R-ADM)
 - EPUK
- ❖ Developed calendaring web applications using PERL/CGI and Active Server Pages
- ❖ Wrote e-commerce systems using Microsoft Active Server Pages
- ❖ Developed inventory control system using C++
- ❖ Wrote exploits in C for government applications to identify vulnerabilities and improve security

Systems/Network Administration Experience

- ❖ Build binary software depot and RPM packages for HP/UX and Red Hat Enterprise Linux
 - ❖ Employed the following vulnerability scanners for testing and LAN management:
 - eEye Retina
 - Tenable Nessus
 - ❖ Maintained the following Network Intrusion Detection Systems:
 - Snort (with barnyard, oinkmaster, and the Advanced Console for Intrusion Databases)
 - RealSecure IDS
 - ❖ Secured Apache web server configurations with:
 - Public Key Infrastructure (PKI) certificates for server identification over Secure Socket Layer (SSL)
 - ModSecurity for Application Firewall
 - ❖ Utilized the following technologies for network protection and NAT:
 - Cisco 2600 series routers
 - Cisco PIX
 - Netfilter (iptables)
 - ❖ Implemented the following Host-based Intrusion Detection Systems (HIDS):
 - Advanced Intrusion Detection Environment (AIDE)
 - Osiris
 - Samhain
 - Tripwire
 - ❖ Engaged in wardriving using Kismet in order to detect rogue wireless access points
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EXPERIENCE
(continued)

- ❖ Performed forensics on user workstations to assist in local investigations prior to involving Naval Criminal Investigative Services (NCIS)
- ❖ Employed the following file sharing solutions for multiple UNIX platforms
 - Samba
 - Network File System (NFS)
- ❖ Employed the following authentication and authorization solutions:
 - Network Information System (NIS)
 - Lightweight Directory Access Protocol (LDAP)
- ❖ Employed the following security solutions on varied UNIX platforms:
 - Netgroups
 - Tcpr wrappers
- ❖ Maintained Berkeley Internet Name Daemon (BIND) for Internet domains
- ❖ Maintained the following electronic mail server technologies:
 - Sendmail
 - Courier
 - Domain Name Service Block Listing (DNBSL) to reduce SPAM
 - Spamassassin/Razor/Pyzor/DCC to reduce SPAM
 - Bogofilter to reduce SPAM
 - ClamAV antivirus filters
- ❖ Ported the following utilities to older systems:
 - GNU utilities to HP/UX 9.01 Operating System
 - Ported Samba 2.X to HP/UX 9.07 for Windows Networking
 - Ported Apache web server 1.03 to HP/UX 9.01
 - Ported Clam Antivirus to SCO Unixware 2.03
- ❖ Maintained Windows NT Complete Trust/Multiple Master Domain Model
- ❖ Configured Cisco Router for Network Address Translation, security, general routing, and routing protocols (OSPF, RIP, BGP)
- ❖ Configured and maintained the following vendor switches:
 - Cisco
 - Bay Networks
 - Xylan

EDUCATION

- ❖ Bachelor of Science in Computer Science, Old Dominion University, Norfolk, VA; May 1999
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**PROFESSIONAL
CERTIFICATIONS**

- ❖ Microsoft Certified Systems Engineer (MCSE), July 1999
- ❖ Cisco Certified Network Associate (CCNA), June 2003
- ❖ Old Dominion University Professional Certificate in Systems Engineering, June 2007
- ❖ Certified Information Systems Security Professional (CISSP), February 2008

**PROFESSIONAL
TRAINING**

- ❖ Netscout Network Monitoring Systems, Summer 1998
 - ❖ Old Dominion University, CS 545: Systems Administration, Fall 1999
 - ❖ Old Dominion University, CS 660: OpenGL Computer Graphics Programming, Fall 2001
 - ❖ Naval Technical Training Center, A-531-0009: Information Systems Security, August 2000
 - ❖ Old Dominion University, CS 588: Principles of Compiler Construction, Fall 2003
 - ❖ Old Dominion University, CS 665: Computer Architecture, Fall 2003
 - ❖ SysAdmin, Audit, Network, Security Institute (SANS), Security 502: Perimeter Protection In-Depth, February 2004
 - ❖ Object Oriented Analysis and Design Using UML, September 2005
 - ❖ Management Concepts: Building and Sustaining Teams, January 2006
 - ❖ Getting Things Done: Mastering Workflow, July 2006
 - ❖ Management Concepts: Managing Time & Stress, Fall 2006
 - ❖ Defense Acquisition University, ACQ 101, Spring 2007
 - ❖ Old Dominion University/Reed Integration, SE 101: Fundamentals of Systems Engineering, January 2007
 - ❖ Old Dominion University/Reed Integration, SE 102: Requirements Management for System Integration, February 2007
 - ❖ Old Dominion University/Reed Integration, SE 104: Concept and Architecture Development, March 2007
 - ❖ Old Dominion University/Reed Integration, SE 103: Integration, Verification, & Validation (IV&V), April 2007
 - ❖ Wizdom Systems, DoD Architectural Framework, April 2007
 - ❖ Old Dominion University/Reed Integration, SE 204: Modeling & Simulation, May 2007
 - ❖ Old Dominion University/Reed Integration, SE 301: Systems Engineering Management Plan (SEMP), June 2007
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AWARDS	<ul style="list-style-type: none">❖ SPAWAR Lighting Bolt Team Excellence Award:<ul style="list-style-type: none">○ November 20, 2001○ February 28, 2002○ May 28, 2002○ May 29, 2003○ February 2006❖ NAVFAC Certificate of Appreciation for Navy C&A Process Training; November 8, 2007
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PROFESSIONAL ORGANIZATION MEMBERSHIP	<ul style="list-style-type: none">❖ Association for Computing Machinery (ACM)❖ International Council of Systems Engineers (INCOSE)❖ Software Engineering Institute (SEI)
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SKILLS	Spoken Languages	Operating Systems
	<ul style="list-style-type: none">❖ English❖ Spanish	<ul style="list-style-type: none">❖ Red Hat Enterprise Linux❖ Sun Solaris❖ Microsoft Windows❖ SuSE Linux❖ Debian GNU/Linux❖ HP/UX❖ FreeBSD
	Programming Languages	
	<ul style="list-style-type: none">❖ C❖ C++❖ Java❖ PERL❖ PHP❖ Python❖ BASH/Bourne Shell❖ FORTRAN	
