

# Joshua J. Stone

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**STRENGTHS** My greatest strengths for any organization are flexibility and adaptability. I feel I have demonstrated an ability to understand new things quickly. I have a driving passion to learn and understand the technology that powers the modern enterprise.

My work style is very comfortable in a team environment. I have endeavored to develop a basic honesty about my strengths and weaknesses with my colleagues in contrast to the arrogance so prevalent in the technical industry.

I thrive in a high-pressure environment, and love to meet new challenges. I am most familiar with information security, but am not afraid to delve into other corners of IT as needed.

**WORK EXPERIENCE**

**TraceSecurity Inc.** 2010 – Present  
*Director of Product Management*

The product management department is responsible for guiding the vision of the flagship software suites. As director, I managed a team identifying, prioritizing, documenting, and specifying new features for these software platforms. I also retained my oversight over security services, including procedures, technique, technological innovation, and training. I also was involved in key deliverables for our most strategic clients. In this role, I expanded my regular interaction to include all other departments, including delivery, sales, marketing, and development.

*Security Services Manager*

In this role, I am responsible for service standards, training of security analysts, and I continue delivering assessments for critical clients. To support these objectives, I created a new analyst on-boarding process for training new analysts on all services within one year – half the time previously required. Created custom statements of work for high-profile clients to define unique security services and defined standards and procedures for executing these deliverables. I also functioned as liaison to sales, development, and upper management, and served as primary technical input for a holistic revision of TraceSecurity's security software and service platform. I also continue to develop hacking tools to support the analysts in penetration testing and conducting technical audits.

*Information Security Analyst*

Provided consulting services for clients in the financial, educational, government, and corporate sectors. Performed over 250 security assessments, including penetration tests (internal and external), social engineering engagements (on-site and remote), risk assessments, and IT audits (based on industry standards, such as FFIEC, SOX, ISO, GLBA). Clients ranged from small businesses to multi-billion dollar banks. Contributed to the team by developing penetration testing / auditing tools. I rewrote standard report text to improve quality across the board, and created several assessment procedures that resulted in substantial improvements in efficiency. I also developed remote internal penetration test instrumentation to dramatically improve quality of penetration testing deliverables.

**University of Illinois at Urbana-Champaign** 2006 – 2010  
*IT Security Officer*

Responsible for incident response, development of security infrastructure, and security policy. Developed and piloted unit-level security audit methodology. Implemented secure XMPP-based IM solution for the entire campus (40,000 users). Wrote UNIX-based SSN scanner to support campus-wide SSN-elimination project, now open source. Served on working group to review new body of campus security standards.

While at U of I, I responded to a security breach 2-4 times per month. To advance awareness of security

issues, I built a dark-net and deployed a 3D real-time visualization of incoming unsolicited threats for a display wall in the main foyer.

### **Slavic Gospel Association**

2005 – 2006

*Electronic Communications Administrator*

Developed new web site infrastructure. Managed donor database and provided analytical services for Advancement (marketing). Managed publications process. Consulted in matters of information security, particularly with regard to secure communications with Russian nationals. Supported information flow between staff in Russian Federation and US office.

### **Ford Motor Company**

2003 – 2005

*Security Analyst, Ford CIRT*

Served on a team of nine analysts providing incident response services for the entire enterprise. Conducted approximately 80 penetration tests for security review of internal and external applications and infrastructure. Supported Legal, Physical Security, and Human Resources with almost 200 forensic investigations.

Developed new framework for three-tiered system of penetration tests to increase team throughput. Reimplemented web proxy log analysis tools to produce two orders of magnitude improvement in performance. Wrote port scanner to scan entire enterprise's 24 million-IP network quickly (under one hour) to improve team performance during major incident response.

### **Michigan Technological University**

Jan. 2001 – Jan. 2003

*Junior System Administrator*

Worked as system administrator in three departments on campus, supporting approximately 2,100 users in a predominantly Sun Solaris environment. Supported users of systems running varieties of UNIX, Linux, and Microsoft Windows. Provided technical support for researchers in a consulting role. Provided web-development and DBA services for the Campus Career Center. Was responsible for security monitoring and patch management for Solaris systems in Chemical Engineering Department.

EDUCATION Bachelor of Science, Computer Science Dec. 2002  
Michigan Technological University GPA: 3.62

SKILLS *Security / Technical* Exploits, Pen-Testing, Forensics, Incident Response, Audits  
*Security / Strategic* Policy, Risk Assessments  
*Industry Standards* FFIEC, NCUA, FDIC, GLBA, NIST, ISO27002, FERPA  
*Programming* C/C++, Ruby, LISP, Perl, Java, Python  
*System Administration* UNIX/Linux, Windows, IRIX, \*BSD  
*Web / Internet* PHP, .NET, CGI, HTML, JavaScript, Rails, SQL  
*Certifications* GWAPT (GIAC)

SOFTWARE

- ◆ **NTFSx** – custom tool for safe extraction of password databases from Microsoft Windows operating system, bypassing OS-level access controls. Also functions as a general tool to extract files locked by the kernel in Microsoft operating systems.
- ◆ **SSNiper** – SSN-scanning tool for UNIX/Linux file systems, which is now available as open source.
- ◆ **Plunder** – plugin-based SMB file share assessment tool for identifying high-risk files; useful for penetration tests, audits, and self-assessments. Included modifying JCIFS library to support Pass-The-Hash (PTH) technique for authentication.
- ◆ **reFORMer** – HTTP dictionary attack tool, which functions as a low-level request repeater with

several means of identifying success of a password attack.

- ◆ **Web Review** – a Haskell and WebKit-based scanning tool intended to accelerate review and note-taking for web-based services during a security assessment, penetration test, or audit.