

William Rodiger Gross
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Objective Provide enthusiasm, insight, hard work, and creativity to an organization dedicated to information assurance.

Personal Profile Mr. Gross' background as a student of computer science and as an IT manager make him an ideal candidate for a position requiring both leadership and technical knowledge. Mr. Gross would have no difficulty in obtaining a security clearance at any level. Mr. Gross' breadth of educational experience obtained at JMU would be an asset to any organization. Mr. Gross maintains a blog on security topics at www.wrgross.com.

Profile **Skills and Methodology** Security assessment; vulnerability analysis; policy and procedure development; system monitoring; threat alert monitoring; server patching and hardening; technical project management; technology analysis and acquisition; software lifecycle development paradigms and management.

Operating Systems Windows XP, Server 2003, 2000, NT, 9x; Linux (Gentoo, Suse, Red Hat, Debian); Unix (Solaris).

Programming Methods Microsoft Visual C#.Net; VB script; ASP; SQL; XML, XSL, XSLT, SVG; HTML, XHTML, CSS; C; C++; Perl.

Security Tools Nmap; Ethereal; Snort; Nessus; Nikto, Whisker.

Education **James Madison University**
James Madison University, Harrisonburg, VA 22807
Department: Computer Science
Degree: May, 2006, Master of Science (MS), Information Security (InfoSec)
Certifications: CNSS CNSSI No. 4014 and NSTISSI No. 4011

University of Maryland
University of Maryland, College Park, MD 20742
Major: Computer Science. Minor: Economics.
Degree: December, 1999, Bachelor of Science (BS), Computer Science

Relevant Coursework

- Computer internetworking and Internet architecture
- Formal methods of system analysis with focus on the Z specification language
- Information assurance (confidentiality, integrity, availability) and threats
- Cryptographic primitives and protocols
- Secure internetworking protocols
- Computer and network forensics
- Database systems {RDBMS's, architecture, modeling, dependencies and normalization, security, recovery, concurrency}
- Secure software engineering
- Operating systems {process management and scheduling, virtual memory, deadlock algorithms, etc}
- Laws affecting the use of computer systems, networks, and cyberspace as a whole.
- Computer algorithm analysis and design

Research Papers

- IP and connection chain traceback
- Improving the performance of PAKE protocols using Batching
- Role-based access controls in relational database systems (RDBMS)

Projects

- Design a cryptographic key agreement scheme suitable for use in Internet web browsers
- Conduct a forensic examination of FAT12 disk and EXT3 Linux disk image
- Perform static and dynamic forensic analysis of unknown binary files

- Develop a secure operations policy, harden, monitor and react to active attacks against a Windows Server 3003 host.
- Scanning, reconnaissance, penetration testing and compromising Linux and Windows servers
- Formal methods analysis of a proposed communications protocol
- Develop a simple web server

Experience

Manager, Web Services, The Nuclear Energy Institute; Washington, DC 2003/04 - Current

- Manage the security of our web environment
- Work with IT Director to design corporate security policy
- Develop security policies and procedures specific to IT department
- Monitor vulnerability disclosure lists and recommend mitigation actions as needed
- Develop scripts to generate reports from Microsoft Firewall and Port Reporter logs
- Define job descriptions, interview and hire new developers
- Manage multi-developer projects
- Work with Communications division to redesign NEI's public website
- Lead software integration projects from inception to completion

Web Production Coordinator, The Nuclear Energy Institute; Washington, DC 2001/09 – 2003/04

- Designed and built a dedicated, source-control based software development environment.
- Implemented a dedicated environment for performing final software testing.
- Coordinated and assisted in a complete rebuild of our production web and SQL server environment.
- Ensured security and service software patches were applied to all web and SQL servers.
- Maintained the WebTrends web usage report generation tool.
- Managed corporate Microsoft SharePoint Portal Server platform.
- Built web-based tools to assist in the content management of NEI websites.
- Leveraged XML and XSL to enhance web management capability.
- Developed a code library of reusable components for our development team.
- Interfaced with Microsoft Indexing Service to provide search capability to several web sites.
- Implemented several office management and workflow tools to increase efficiency of common tasks.
- Developed training material and conducted trainings on various custom and third party software tools.

Web Developer / Quality Assurance, The Motley Fool, Incorporated; Alexandria, VA 1999 – 2001

- Created new development process based on the Unified Software Development Process for IT department.
- Managed execution of the first few projects through the newly developed process.
- Developed a framework for metrics gathering and process improvement.
- Lead a team of four Quality Assurance members in conducting a review of automated testing tool products.
- Constructed a Quality Assurance strategy for a very large in-house software development project.
- Developed search.fool.com as technical lead, chief architect, and lead developer on the project. My role covered initial product acquisition, integration, and maintenance.
- Worked with internal customer to build and deploy The Motley Fool's recruiting application.

Achievements/ Awarded the CNSS CNSSI No. 4014 and NSTISSI No. 4011 certifications for work done at JMU.

Affiliations Member of the Information Systems Security Association (ISSA – NOVA).
Invited by Ultraseek and Inktomi, to speak at their 2000 and 2001 annual users group meetings.
Completed the 2005 Le Grizz 50 mile ultramarathon, Charlottesville and Richmond Marathons.

References Available upon request.