

# Keith A. Watson

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## Objective

A team-oriented position where my skills and experience in information assurance can be effectively utilized for the protection of information and resources and to add value to an organization.

## Work Experience

### *Purdue University*

February 2004 – Present (25% time allocation) West Lafayette, Indiana

**Security Consultant**, National Plant Diagnostic Network (NPDN; a USDA-funded biosecurity network)

- Advising and assisting on policy, strategy, and security awareness development.
- Creating an information security awareness program for over 225 diagnosticians.
- Conducted six site visits and wrote eight information security assessment reports.
- Developed and lead two-day security training courses for twenty systems administrators.
- Spoke at regional and national meetings on various aspects of information security.

August 2002 – Present (75% time allocation) West Lafayette, Indiana

**Research Engineer**, Center for Education and Research in Information Assurance and Security (CERIAS)

- Conduct research in security architecture, biometrics, intrusion detection, and metrics.
- Received a \$450K research grant from the NSF for the Poly<sup>2</sup> research project.
- Manage software development projects for the File Hound tool (National Institutes of Justice contract) and the BioAPI 2.0 specification implementation in Java (BioAPI Consortium).
- Deploy and manage associated research computing equipment and networks.
- Managed twenty undergraduate students on independent research projects for course credit.

### *Sun Microsystems, Inc.*

January 2001 – March 2002 Broomfield, Colorado

**Product Manager**, Solaris Network Security, Solaris Software

- Created and presented Sun and Solaris security vision to customers and media.
- Researched customer/market needs and requirements for Solaris network security.
- Negotiated and prioritized Solaris security engineering efforts.
- Wrote and managed the content on the public Sun security web page for nine months.

November 1998 – January 2001 Mountain View and Menlo Park, California

**Project Engineer**, Professional Services

- Wrote and updated four Sun BluePrints™ OnLine documents on Solaris security and OpenSSH.
- Created service methodology and training program for building secure Solaris installations.
- Contributed to the design and implementation of the Solaris Security Toolkit.

June 1997 – November 1998 Palo Alto and Mountain View, California

**Research Engineer**, Sun Microsystems Laboratories

- Designed and implemented the Sun Enterprise Network Security Service (SENSS), a Java-based intranet security assessment tool.

## Education

Bachelor of Science (B.S.) Computer Science, May 1997 (GPA: 3.18)  
Purdue University, Department of Computer Sciences, West Lafayette, IN

## Skills

Operating Systems

Mac OS X, FreeBSD, OpenBSD, Linux (various distributions), Windows, Solaris, HP-UX

Programming and Scripting Languages

bash, Korn Shell 93, Perl, Java, C, C++

Other Technical Skills

Network and datacenter planning and physical wiring

Physical security assessment and site planning

## Certifications

Certified Information Systems Security Professional (CISSP), December 2001

Certified Information Systems Auditor (CISA) October, 2007

National Security Agency INFOSEC Assessment Methodology (IAM), September 2005

National Security Agency INFOSEC Evaluation Methodology (IEM), September 2005

American Red Cross Adult CPR and Standard First Aid, January 2007

## Activities and Honors

FCC-licensed Amateur Radio Operator, General Class (callsign: KF4HWT)

Member, Purdue Amateur Radio Club, W9YB

- Technical Seminar Coordinator and Presenter
- Amateur Radio Direction Finding ("Foxhunt") Contest Coordinator

Former Member, Purdue Student Chapter of Association for Computing Machinery (ACM)

- Faculty Host Representative
- Co-Editor of Freshman Survival Guide
- Facilities Representative

Former Member, Purdue Daemons

- Wrote portions of a pocket guide for commonly used UNIX commands

Dean's List (Fall 1992, Spring 1993), Semester Honors (Fall 1992, Spring 1993, Fall 1993)

Member, Alpha Lambda Delta and Phi Eta Sigma (freshman honoraries)

## Selected Publications

Eric Bryant, James Early, Rajeev Gopalakrishna, Gregory Roth, Eugene Spafford, Keith Watson, Paul Williams, Scott Yost, "Poly<sup>2</sup> Paradigm: A Secure Network Service Architecture," 19th Annual Computer Security Applications Conference, December, 2003.

<http://www.acsa-admin.org/2003/papers/72.pdf>

Alex Noordergraaf, Keith Watson, "Solaris Operating Environment Security," Sun BluePrints OnLine, December 2002.

<http://www.sun.com/blueprints/1202/816-5242.pdf>

Jason M. Reid, Keith Watson, "Building and Deploying OpenSSH on the Solaris Operating Environment," Sun BluePrints OnLine, July 2001.

<http://www.sun.com/blueprints/0701/openssh.pdf>

Alex Noordergraaf, Keith Watson, "Solaris Operating Environment Network Settings for Security," Sun BluePrints OnLine, December 2000.

<http://www.sun.com/blueprints/1200/network-updt1.pdf>