

Poornaprajna V. Udupi

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Objective: Research, design, development and management of innovative technologies and products.

Technical Skills:

Computer Languages: C, C++, PROLOG, JAVA, HTML, Vera, Verilog
Scripting Languages: Perl, Shell (bash, ksh), Expect
Operating Systems: Linux, Solaris, Mac OS X, WINxx, MS-DOS.
Debugging Tools: DTrace, MDB, Kernel Modular Debugger (KMDB)
Frameworks: Java ME, Squawk VM, Wireless Tool Kit, Java Card

Professional Summary:

Applied Research and Prototype Development

Title: Researcher November 2005 - Present
Employer: SUN Microsystems Laboratories.
Responsibilities: Working on interesting applied cryptography research projects and developing prototypes in the areas of Web Security.

Solaris Kernel Quality Engineering

Title: Member of Technical Staff July 2003 - November 2005
Title: Solaris Kernel Test Intern June 2001 - August 2001
Employer: SUN Microsystems, Inc.
Responsibilities: Solaris Operating System kernel based test development, maintenance and debugging.

Computer Systems Security Research

Title: Graduate Student Researcher April 2002 - June 2003
Employer: University of California, San Diego
Responsibilities: Developed the Security Attribution Certification Infrastructure for a mobile software agent system in Java. See details under projects below.

System Level Hardware Verification

Title: System Verification Intern June 2002 - September 2002
Employer: SUN Microsystems, Inc.
Responsibilities: System Verification for Multiport InfiniBand Adaptor.

Bioinformatics Research

Title: Graduate Student Researcher September 2000 - March 2002
Employer: San Diego Supercomputer Center
Responsibilities: Developed software for various BioInformatics projects using Perl.

System Administration

Title: System Administrator June 1999 - June 2000
Employer: Central Computer Center, Surat, India
Responsibilities: Maintained a Class C Network. Installed, configured, maintained SUN SPARCS, HP-UX workstations and x86 machines running LINUX

Education:

Master of Science, Computer Science, GPA: 3.7, December 2003
University of California, San Diego (<http://www-cse.ucsd.edu/>)

Bachelor of Computer Engineering, June 2000
National Institute of Technology, Surat, India (<http://www.svnit.ac.in/>)

Technical Publications:

- Multi-Factor Password Authenticated Key Exchange (MFPAK). Douglas Stebila, Poornaprajna Udipi, and Sheueling Chang. To appear in a journal. Can be downloaded from: eprint.iacr.org/2008/214
- Two-factor Server and Client Authenticated Key Agreement Protocols. Poornaprajna Udipi, Sheueling Chang, Douglas Stebila. November 2007. Sun Labs Technical Report: SML2008-0099
- Enhancing the Secure Remote Password Protocol: User Privacy, Server Binding, and Two Factor Authentication. Douglas Stebila, Poornaprajna Udipi, and Sheueling Chang. March 2007. Sun Labs Technical Report: SML2007-0096
- Module Writer. A program for automatic generation of database interfaces (Pages 135-139), Computational Biology and Chemistry, Volume 27, Issue 2, Pages 91-162 (May 2003), Christina L. Zheng, Fariba Fana, Poornaprajna V. Udipi and Michael Gribskov

Awards and Honors:

- Software People's Choice Award at Sun Microsystems, Inc. for the AMD64 project.
- Sun Microsystems Inc., Chairmans Award for FY05 for the AMD64 project.
- Selected for the Sun Engineering Best of Best for the year 2004-2005.

References: Available on request