Dan Noland

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Objective

Career employment in software development or research.

Education

- **Purdue University**, West Lafayette, IN.
  GPA: 3.33
  Degree Conferred: M.S. Computer Science, December 2004
  Relevant Coursework: Advanced Information Assurance, Cryptography, Interactive Computer Graphics, Operating Systems, Algorithm Design & Analysis, Compiler Design, Information Assurance & Security, Network System Design
- **Purdue University**, West Lafayette, IN.
  GPA: 3.20
  Degree Conferred: B.S. Computer Science, May 2001
  Relevant Coursework: Programming I-II, Computer Architecture, Data Structures, Compilers Principle & Practice, Introduction to the Analysis of Algorithms, Information Systems, Operating Systems, Software Engineering, Computer Networks, Computer Security, Artificial Intelligence

Skills

- C++, C, Java, Pascal, some x86 and ppc assembly
- Python, Perl, Batch Scripting, bash, csh
- Linux, BSD, Solaris, Windows
- Emacs, Microsoft Visual Studio, gcc, Sun Workshop, Clear Case, Bounds Checker, gdb, IDA Pro, WinDbg
- CGI Scripting, XML Data Manipulation, SQL Database Queries and Commands
- cryptography, steganography, vulnerability assessment, reverse engineering, intrusion detection systems
- Object-oriented programming, software engineering, systems programming, networking

Work Experience

- **Engineer**, Arxan Technologies Inc (December 2004 - Present)
  - Software Protection and Red Teaming: Member of a team that successfully analyzed and defeated a major DRM system. Designed software protections to protect customer code from tampering and reverse engineering.

  - Software Protection Engine: Implemented new features and protection mechanisms such as the ability to protect relocatable ELF objects.
  - Arxan Protection Gateway: Designed and implemented an evolutionary algorithm to automatically generate software protections. Designed and implemented a web application allowing customers to protect executables over the web. Acted as technical lead for a team of four.
  - Grant Writing: Authored a DoD SBIR proposal resulting in an award of $200,000. Edited and contributed to a number of other proposals resulting in total awards in excess of $500,000.

- **Programmer**, Purdue University Rosen Center for Advanced Computing (June 2003 - December 2004)
  - Markov Chain Based Ancestral Recombination Graph Generator: Rewrote code to take advantage of sparsity of Markov chain state vector, devised and implemented a method for storing trees independently of the number of events.
  - Administration of Purdue's Alliance Grid Testbed Installation: Installed and maintained grid computing tools (Globus, MPITCH, Condor-G, GridFTP), certificates, and accounts.
- **Teaching Assistant, Course Administrator, Instructor**, Purdue University CS Department (August 2001 - May 2003)
  - Administrative Responsibilities: Oversaw a course with approximately 200 students. Supervised graduate and undergraduate teaching assistants. Advised course instructor on student progress. Assigned final grades.
  - Teaching Responsibilities: Designed exams, labs, and projects. Taught biweekly recitation sections. Proctored exams. Graded student work.
- **Software Engineering Intern**, Polaroid ID Systems (December 1999 - August 2001)
  - License Capture Station: Developed and implemented an interface model for communication between objects. Added functionality to the GUI. Implemented a TWAIN image source for the capture station. Wrote documentation.
  - WSQ Image Compression for Fingerprint Images: Worked in a team of four to implement the compression / decompression algorithm. Tested the application to ensure resultant images were within specification.

Publications & Presentations

- Pascal Meunier, Sofie Nystrom, Seny Kamara, Scott Yost, Kyle Alexander, Dan Noland, Jared Crane: "ActiveSync, TCP/IP and 802.11b Wireless Vulnerabilities of WinCE-Based PDAs". Proceedings of Eleventh IEEE International Workshops on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE'02), 145-152.
- Talk Title: "Emacs, The thermonuclear Editor"
  Presented to: Purdue ACM Chapter March 2003 and Purdue Linux Users Group October 2003
  Notes: http://nolandda.org/pusite/emacs.intro.html

Miscellaneous

- ◇ Clearable to top secret
- ◇ Ability to speak passable German
- ◇ Purdue ACM Teaching Assistant of the Year, 2001/2002 school year
- ◇ Secretary, Purdue chapter of the ACM, January 2000 - May 2001
- ◇ Purdue Linux Users Group, January 1998 - December 2004
- ◇ IEEE Computer Society, Purdue University, September 1999 - December 2004
- ◇ Society of Physics Students, Purdue University, September 1999 - December 2004
- ◇ Hilltop Apartments Student Government, January 2000 - May 2000
- ◇ Master Counselor, Leo G. White Chapter Order of DeMolay, 1996

References

Available on request.