Dan Noland

Arxan Technologies
3000 Kent Avenue Suite E2-300
West Lafayette, IN 47906
(765) 775-1004 x109
dnoland@arxan.com
http://www.arxan.com/

2625 Willow Drive
West Lafayette, IN 47906
(765) 532-7327
nolandda@gmail.com
http://nolandda.org/

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.

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- · 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.