Daniel Aaron Noland

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Objective

Career employment in software development or research.

Education

- **Purdue University**, West Lafayette, IN.
  GPA: 3.33
  Degree Objective: MS Computer Science (expected 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: BS Computer Science (May 2001)
  Courses Completed: 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++, Java, C, Perl, elisp, Pascal, CGI, HTML
- BSD, Linux, Solaris, Windows
- Emacs, Microsoft Visual Studio, gcc, Sun Workshop, Clear Case, Bounds Checker, gdb
- intrusion detection systems, cryptography, steganography, vulnerability assessment
- Globus, VDT, GPT, MPITCH, Condor-G, gsi-ssh, GridFTP
- Object-oriented programming, software engineering, operating systems, networking

Work experience

- **Programmer**, Purdue University RCS (June 2003 – present)
  - Markov Chain Based Ancestral Recombination Graph Generator: Rewrote code to take advantage of sparcity 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 tools, certificates, and accounts.

- ◇ **Course Administrator**, Purdue University CS Department (May 2002 – May 2003) Oversaw a course with approximately 200 students, supervised graduate and undergraduate teaching assistants, designed exams, advised course instructor on syllabus and student progress
- ◇ **Graduate Teaching Assistant**, Purdue University CS Department (August 2001 – May 2002) Taught biweekly recitation sections, designed labs and projects, 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 : Helped to implement the compression/decompression algorithm, tested the application to ensure resultant images were within specification

Publications & Presentations

- ◇ **P**ascal 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
- ◇ **K**aty Simonsen, Dan Noland, Chinh Le: "An efficient algorithm for simulating coalescence with recombination" Submited to Interface 2004: Computational Biology and Bioinformatics
- ◇ **T**alk title: "Emacs: The Thermonuclear Editor"
  Presented to: Purdue ACM Chapter March 2003 and Purdue Linux Users Group October 2003
  Notes: `http://expert.ics.purdue.edu/~nolandd/emacs.intro.html`

Activities & Honors

- ◇ **P**urdue ACM Teaching Assistant of the Year, 2001/2002 school year
- ◇ **S**ecretary, Purdue chapter of the ACM, January 2000–May 2001
- ◇ **P**urdue Linux Users Group, January 1998–present
- ◇ **I**EEE Computer Society, Purdue University, September 1999–present
- ◇ **S**ociety of Physics Students, Purdue University, September 1999–present
- ◇ **H**illtop Apartments Student Government, January 2000–May 2000
- ◇ **M**aster Counselor, Leo G. White chapter Order of DeMolay, 1996

References

Available on request.