Sean Finney

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Education

Lunds Tekniska Högskola, Lund University — Lund, Sweden
International Masters' Program in Efficient Computation. Expected graduation spring 2007

Swarthmore College — Swarthmore, PA, USA
Graduated June 2003, Bachelor of Arts in Computer Science.

Université de Pierre et Marie Curie (Paris VI) — Paris, France
Fall Semester 2001. Course work focus on distributed systems and graphic algorithms.

Granada High School — Livermore, CA, USA
Graduated in top 10% of class. Special recognition from science and foreign language dept's.

Experience

- *Gradient Solutions LLC (http://www.gradientsolutions.net)*

  Co-Founder, Chief Technology Officer — *2003/04 to Present*
  - Provide wide range of IT support to small businesses, non-profit organizations, and academic institutions.
  - Specialized in Linux/Unix Administration, Web Development.

- *Information Technology Services, Swarthmore College*

  UNIX Systems Administrator — *2003/09 to 2005/08*
  - Responsible for administering 40 UNIX and GNU/Linux based servers
  - Provide web, mail, DHCP, DNS, and other services for a userbase of 3000 clients
  - Provide UNIX training for ITS staff and new Systems Administrator

  Help Desk Technician — *2003/02 to 2003/09*
  - Provide software and hardware support for faculty and staff
  - Install/Remove/Troubleshoot various software for multiple operating systems
  - Unix/Linux specialist, assist with special projects and problems

  Dormitory Technical Consultant — *2000/08 to 2003/06*
  - Troubleshoot and resolve problems on students' personal computers.
  - Promoted to Manager, Spring 2002.
  - Coordinate campus-wide network of student consultants, liaison to upper management

- *Computer Science Department, Swarthmore College*

  Student Systems Administrator — *2000/01 to 2003/06*
  - Maintain a Solaris and GNU/Linux based network for approximately 500 users.
  - Assist and educate users, by running tutorial sessions, and writing documentation.

  Teacher's Assistant / Grader — *2002/01 to 2003/06*
  - Run weekly "clinics" to help students in lower level courses.
  - Provide one-on-one tutoring for 6 students a semester.
  - Grade homework assignments and projects.

- *User Services Group, NERSC, Lawrence Berkeley Natn'l Labs.*

  Summer Research Intern — *Summer 2001*
  - Assist with transition to a 10 Tflop 6,656-CPU non-weapons supercomputer.
  - Write applications to benchmark application performance on the new system.

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[0] References and a more detailed work history furnished upon request. This document current September 11, 2005. The most up-to-date version can always be found at http://cs.swarthmore.edu/~finney

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Research

Nswap for Linux Clusters *under Prof. Tia Newhall, summer 2002-fall 2003*
Researched and implemented remote network-based virtual memory for GNU/Linux based clusters. Recieved research stipend for summer 2002. Results presented at CCSCNE conference student research poster session, April 2003. Paper accepted and published, Euro-Par 2003.

Mobile Robotics *under Prof. Bruce Maxwell, fall 2002-spring 2003*
Extensive research in path/motion-planning, robot vision, artificial intelligence, Kalman and particle filters, and action selection networks. Helped implement team of fully autonomous soccer playing robots. Specialized in fast image segmentation algorithms for real-time target tracking.

Skills/ Interests

- **Programming Languages/Skills**[1]: *Very Good*: C, MySQL, Perl, PHP, shell scripting *Good*: HTML, LaTeX, Postgresql *Some Experience*: C++, Java, Lisp/Scheme, Expect, VHDL, VRML.
- **Operating Systems**: GNU/Linux (Debian, Redhat, and Suse), MacOS (8/9/X), Microsoft Windows (3.0-XP), NetBSD/FreeBSD/OpenBSD, Solaris(2.7-2.9), Tru64 UNIX.
- **Other Skills**: Strong written and inter-personal skills, proficient in French, learning Swedish.
- **Academic and Professional Interests**: Distributed and parallel systems, systems monitoring, systems security, A.I., cryptography, networking, operating systems design/management, Free Software development.
- **Professional Organizations**: Debian GNU/Linux (developer), Philadelphia and Swarthmore Linux Users Groups, SAGE (1999), Sigma Xi Society (2002), USENIX (1999), NERCOMP (2005).
- **Other Interests**: Balinese gamelan, guitar, drums, computers, foreign languages, anime.

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[1] "Very Good" implies extensive experience. "Good" implies having general proficiency. "Some" implies previous usage and some degree of familiarity.