Kuzman Ganchev

July 2003

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Education

SWARTHMORE COLLEGE, SWARTHMORE PA   Fall 1999-Spring 2003
Bachelor of Arts Degree with High Honors
Major: Computer Science; Minor: Mathematics
3.90 Major GPA, 3.82 GPA on a scale of 0 to 4

Honors

Marion Dannenberg Scholarship recipient
President of Swarthmore College Computer Society (2002-2003)
Sigma Xi Scientific Research Society associate member
Phi Beta Kappa member

Skills

SYSTEM ADMINISTRATION
Linux
OS PROFICIENCY
Linux, Solaris, Windows, Mac OS 9, Mac OS X
PROGRAMMING LANGUAGES
C, C++, Perl, AWK, Java, Python, Scheme
DATABASE LANGUAGES
SQL
NETWORK PROGRAMMING
C on POSIX, Java, C in Linux kernel
SCRIPTING AND MARKUP
sed, Unix shell scripts, HTML, LaTeX, PHP
GRAPHICS
OpenGL, VRML

Experience

SYSTEM ADMINISTRATOR, SWARTHMORE COLLEGE COMPUTER SOCIETY   Spring 2001-Spring 2003
Administration of a system with over 1000 user login and mail accounts, web server,
laboratory with IA32 and Sparc client machines, all running Debian GNU/Linux
and a multimedia viewing room. User support and communication with the college
computing services.

NSWAP DEVELOPMENT PROJECT, SWARTHMORE COLLEGE   Summer 2001-Spring 2003
Development of a network swapping system as part of an undergraduate research
team. Kernel programming including multithreading and network communication.
Development of communication protocol from scratch, including possible race con-
ditions, and deadlock avoidance. Individual problem solving and active group dis-
cussion.

DORM COMPUTER CONSULTANT, SWARTHMORE COLLEGE   Fall 2002-Spring 2003
Technical support for the college Information Technology Services: Resolving com-
puter and network problems for dorm residents.

PUBLIC AREA COMPUTER CONSULTANT, SWARTHMORE COLLEGE   Spring 2000-Spring 2003
Technical support for the college Information Technology Services: Helping users
of the Public Area Computer Laboratory with technical problems

STUDENT RESEARCHER, APPLET PROJECT, MATH FORUM   Summer 2000
Finding and evaluating interactive teaching tools for Calculus. Detailed descriptions
of tools for use by Math professors. Team discussions of strategies and metadata
content.

Professional Affiliation

ACM, Student member.

Languages

Fluent in: Bulgarian, English, French
Good at learning new languages and interacting with different cultures. Lived in:
Bulgaria, Zimbabwe, New Zealand, France and USA.

Publications

Tia Newhall, Sean Finney, Kuzman Ganchev, Michael Spiegel "Nswap: A Network Swapping Module for Linux Clusters". To appear in: Proceedings of Euro-Par'03 International Conference on Parallel and Distributed Computing, Klagenfurt, Austria, August 2003; Lecture Notes in Computer Science, 2790, Springer.

Sean Finney, Kuzman Ganchev, Matti Klock, Michael Spiegel "The Nswap Module for Network Swap" Student Poster Session, Eighth Annual Consortium for Computing Sciences in Colleges Northeastern Confere nce, Abstract in conference proceedings, April 2003. Advisor: Tia Newhall

References

Tia Newhall (`newhall@cs.swarthmore.edu`) – Swarthmore College, 500 College Avenue, Swarthmore PA 19081
Lisa Meeden (`meeden@cs.swarthmore.edu`) – Swarthmore College, 500 College Avenue, Swarthmore PA 19081
Charles Kelemen (`cfk@cs.swarthmore.edu`) – Swarthmore College, 500 College Avenue, Swarthmore PA 19081