

Kate Ericson
San Diego Supercomputer Center
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EDUCATION:

B.A., Economics, Grinnell College, May 1996

PROFESSIONAL EXPERIENCE:

PROGRAMMER ANALYST III, SAN DIEGO SUPERCOMPUTER CENTER (SDSC)
SAN DIEGO, CA, 7/1/2004 - present

- Software deployment manager and programmer for the San Diego Supercomputer Center (SDSC).
- Contribute to the design, installation and management of a testing framework for large, multi-site Grids as part of the Inca project.
- Analyze, specify, design, and assist in implementation of the Inca system to address a variety of problems and tasks in scientific areas related to advanced computing and networking.
- Perform systems administration and analysis tasks, testing and benchmarking.
- Work with very complex systems and networks in a research and performance evaluation environment.
- Assume independent responsibility for Inca deployed on a variety of machines such as the TeraGrid cluster at SDSC.
- Resolve system engineering issues related to releasing Inca as production software.
- Collaborate with groups at nine TeraGrid partner sites, including the National Center for Supercomputing Applications (NCSA), Argonne National Laboratory (ANL), California Institute of Technology (Caltech) and Pittsburgh Supercomputing Center (PSC), for system integration.
- Work closely with SDSC's Grid Development Group, TeraGrid systems staff, and end users. Initiate collaboration with other Grids.
- Participate in SDSC and partner research projects.
- Create and maintain Inca software documentation and Web site.
- Develop Web and command line user interfaces to display Inca data.
- Supervise and mentor student interns.

SENIOR TECHNICAL WRITER
SAN DIEGO SUPERCOMPUTER CENTER (SDSC)
SAN DIEGO, CA, 5/1/01 - 6/30/04

- Technical writer and programmer for the San Diego Supercomputer Center (SDSC).
- Created documentation, GUIs, and applications (using object-oriented Perl, PHP, SQL, Javascript, Python, Shell Scripting, JSP, XSL, XML, UML, HTML, etc.) to support users of Grid and High-Performance Compute resources. Wrote HTML, including original page and graphic design.

- Worked closely with SDSC, TeraGrid, and PACI staff and users to develop highly functional and effective GUIs and documentation.
- Resolved GUI and documentation user issues.
- Designed, implemented, and maintained print and online documentation for the Scientific Computing Department (SciComp) and affiliated projects (e.g. TeraGrid and NPACI).
- Conceptualized, wrote, edited, proofread, and disseminated complex technical information in support of SciComp activities.
- Developed consistent writing standards for department Web presence.
- Created and maintained SciComp Web pages and associated graphics.
- Supervised and mentored student interns

PROGRAMMER ANALYST II, UNIVERSITY OF CALIFORNIA, SAN DIEGO (UCSD)
SAN DIEGO, CA, 2/1/01 - 4/30/01

- Programmer Analyst II for the California Space Institute (CalSpace) at UCSD.
- Space satellite operator and programmer for NASA's Triana satellite mission.
- Trained in Java programming, Unix/Linux systems, and Web design.

INTERN, UNIVERSITY OF CALIFORNIA, SAN DIEGO (UCSD)
SAN DIEGO, CA, 8/1/99 - 1/31/00

- Intern for Structural Engineering Department's Systems Analyst.
- Worked with NT/Win95/Win98 and Unix systems and servers in a networked heterogeneous environment of PCs, Macs, and Unix platforms for administration and research groups.
- System hardware/software configuration and maintenance, system and application program installation, troubleshooting, and repair for PC platforms.

PUBLICATIONS:

S. Smallen, C. Olschanowsky, K. Ericson, P. Beckman, and J. Schopf. "The Inca Test Harness and Reporting Framework", *Proceedings of Supercomputing 2004*, November 2004, Pittsburg, Pennsylvania.

TEACHING EXPERIENCE:

- San Diego Supercomputer Center, February 2006.
Taught tutorials during a two-day workshop that introduced version 2 of the Inca grid monitoring system.
- San Diego Supercomputer Center, May 2004.
Gave two-day tutorial on documentation for scientific computing.

PRESENTATIONS:

- Inca Overview, Supercomputing 2005, November 2005, Seattle, WA
- Inca Data Display, DEISA Grid Meeting, July 2005, Bologna, Italy
- Inca Project Plan, TeraGrid All Hands Meeting, April 2005, Austin, TX