

A. ROSINA BIGNALL

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EDUCATION

Iowa State University Ames, IA
Certificate of Nonprofit Management 2007

Brigham Young University Provo, UT
Master of Science in Computer Science December 1996
Bachelor of Science in Computer Science, Minor in Mathematics August 1991
▷ Thesis: "Heuristic Path Analysis of Accesses to a World Wide Web Site"
▷ GPA: 3.47 (overall), 3.78 (Master's degree)

Ricks College Rexburg, IA
Associate in Arts and Sciences in Computer Science April 1989
Associate in Arts and Sciences in Mathematics April 1989
▷ GPA: 3.71

SKILLS

Languages: English, German, American Sign Language

Operating Systems: Linux (Redhat Enterprise Linux, Debian, SUSE, Kubuntu, Fedora), Mac OS, UNIX (several variants), Windows 98/2000/XP, VM, OS/400

Computer Languages: C, C++, HTML, Perl, L^AT_EX, UNIX Shells, Paradox, Pascal, Fortran, SQL, Ruby, PHP, Scheme, APL, Ada, Various Assemblers, Lisp, PL/1

Frameworks and CMS: Drupal, Joomla, WordPress, Zend, Ruby on Rails

Tools and Systems: VMWare, Svn/CVS/RCS, Make, SSHD, VI, Emacs, Apache, BIND, MySQL, NFS, OpenLDAP, OpenSSL, Samba

Hardware Systems: HP 9000/7xx, DEC, AS/400, PC, Mac

PUBLICATIONS

"Uses of Mosaic in a University Setting," (et al), *Proceedings of the Second International WWW Conference*, Chicago, IL, October 1994

REVIEWING ASSIGNMENTS

Referee for the **9th International Conference on Theorem Proving in Higher Order Logics**, *Lecture Notes in Computer Science 1125: Theorem Proving in Higher Order Logics: 9th International Conference, TPHOLs '96*, Springer-Verlag, Provo, Utah, August 1996

Referee for the **8th International Workshop on Higher Order Logic Theorem Proving and Its Applications**, *Lecture Notes in Computer Science 971: Higher Order Logic Theorem Proving and Its Applications*, Springer-Verlag, Berlin, Germany, September 1995

CONSULTING EXPERIENCE

Kiveo, LLC London, UT
Consultant 2011–Present

- ▷ Participated in project for Social and Scientific Systems, Inc. using Zend Framework and Drupal Content Management System. Added new functionality and modified existing functionality within Zend Framework based on user requests. Developed enhancements for current Drupal website including selecting appropriate modules, settings and integration to produce the desired content. Specified and developed integration between Zend based website and Drupal content management system. Worked with PHPUnit to develop automated testing.

Universal Industrial Sales

Lindon, UT

Consultant

1998–2005, 2007–2009

- ▷ Upgraded Order Entry system designed and written in Paradox.
- ▷ Included modifying the database structure, forms, and program components to enhance business purposes.

Chiropractor

Orem, UT

Consultant

1995–1997

- ▷ Maintained hardware and software components of their system.
- ▷ Upgraded software and hardware as needed.

WORK EXPERIENCE**Disability Assistance Dogs**

Davenport, IA

Chief Executive Officer/Founder

December 2005–Present

- ▷ Run day-to-day operations
- ▷ Develop Supervised Training Program
- ▷ Professionally train and place Service Dogs and other types of Assistance dogs
- ▷ Work with recipients to ensure life long success with their dog
- ▷ Work with board of directors

Leader Dogs for the Blind, Inc.

Rochester, MI

Apprentice Instructor

June 2000–June 2002

- ▷ One-on-one training of guide dogs under limited supervision of instructor
- ▷ Evaluated customer needs to correctly match guide dog teams
- ▷ Effectively trained teams to work successfully together

Guide Dogs for the Blind, Inc.

San Rafael, CA

Instructor Assistant

June 1999–June 2000

- ▷ Maintained proper health and safety of 20 dogs
- ▷ Provided proper feeding, grooming and exercise to satisfy the individual needs of the dogs
- ▷ Followed all policies to monitor and maintain the high standard of cleanliness and safety set by employer

Freedom and Independence

Orem, UT

Chief Executive Officer

1997–1999

- ▷ Started and ran own company.
- ▷ Computer consulting for various local businesses.
- ▷ Taught dog training lessons. Helped people understand and develop the relationship between themselves and their pets.
- ▷ Trained service dogs (hearing dogs, mobility assistance dogs, guide dogs, etc.).
- ▷ Trained cats and other animals for performance.
- ▷ Helped people reduce their taxes and protect their assets.

Intel Corporation

American Fork, UT

Software Test Engineer

January 1997–August 1997

- ▷ Code level and interface level testing of the LANDesk Client Manager product

- ▷ Developed test specifications including test plans, design of test cases, etc.
- ▷ Implemented code for test cases where necessary and performed test cycles
- ▷ Developed structure for code level tests to plug test cases into and developed a system for generating code for the test cases

Brigham Young University

Provo, UT

August 1990–December 1996

- ▷ **Research Assistant:** Investigated the use of WWW log files in determining what pages are accessed and which links are followed by visitors to the site.
- ▷ **Webmaster:** Responsible for development and maintenance of a WWW site for the Computer Science Department. Installed and upgraded the WWW server regularly. Built and maintained other major support software packages. Wrote several HTML forms and corresponding CGI form handlers.
- ▷ **Head Teaching Assistant:** Supervise three other teaching assistants for the Foundations of Computer Science class.
- ▷ **Teaching Assistant:** Assisted professor in classes ranging from 30 to 200 students with instruction, grading papers and tests, etc., provided lab support, helped students with homework and programs. Classes: Foundations of Computer Science (CS235), Operating System (CS344, CS444, CS544), Process Control and Robotics (CS545), Database Theory (CS353, CS451, CS453), File Structures (CS351), Compiler Theory (CS431), Network Communications (CS460).

Utah Valley State College

Orem, UT

*Adjunct Faculty**January 1994–April 1994*

- ▷ Taught *Database Theory* to a class of about 30 students
- ▷ Designed and developed course materials
- ▷ Wrote and assigned labs, homework, and exams

International Business Machines, AS/400 Development

Rochester, MN

*Computer Programmer Intern**July 1991–December 1991*

- ▷ Tested APIs for the OS/400 Operating system
- ▷ Continued development and maintenance of an automatic test case generator

International Business Machines, VM Development

Rochester, MN

*Computer Programmer Intern**May 1990–August 1990*

- ▷ Participated in development of functions in the VM Operating System.

EG&G, Idaho National Engineering Laboratory

Idaho Falls, ID

*Technical Writer**May 1989–August 1989*

- ▷ Wrote programmer documentation for the GTRIMS software system developed by EG&G for the US Marine Corps
- ▷ Assisted with reviewing and revisions of documentation for other software packages
- ▷ Assisted in testing GTRIMS and other software packages

Ricks College

Rexburg, ID

*Teaching Assistant**August 1987–June 1989*

- ▷ Assisted professors in classes of about 30 students with instruction, grading papers and tests, etc.
- ▷ Supervised lab hours.
- ▷ Classes: Computer Architecture and Assembly Language Programming, Pascal programming, Fortran programming, Discrete Mathematics, Data Structures, Programming Languages, etc.

Department of Army, Rock Island Arsenal

Rock Island, IL

*Computer Programmer**April 1987–August 1987, April 1988–August 1988*

- ▷ Developed and maintained small software packages in Dbase IV and QBasic

- ▷ Installed and maintained software on PCs
- ▷ Taught employees to use software

VOLUNTEER WORK

Guide Dogs for the Blind, Inc.

Puppy Raiser

1997–1999

- ▷ Raised puppies for the first year of their lives to prepare them to be trained and work as Guide Dogs

ASR

Training Facility Supervisor

April 1995–April 1996

- ▷ Managed a training facility for new writers in a shared writing environment
- ▷ Supervised about 20 instructors and up to 80 students in the program at any time
- ▷ Hired and trained new instructors
- ▷ Worked with other administrators on a board of directors to determine the direction of ASR

The Church of Jesus Christ of Latter-Day Saints

Riverside, CA

Missionary

July 1992–December 1993

- ▷ Served a volunteer mission
- ▷ Taught people about the gospel of Jesus Christ and The Church of Jesus Christ of Latter-Day Saints

HONORS, ACHIEVEMENTS AND ACTIVITIES

Vice President, BYU Computer Science Graduate Student Association (CSGSA) (1995–1996)

Participated in and Volunteered with Ricks Outdoor Cooperative Handicapped Association (ROCHA) (1986-1989)

Ricks College Honors Program.

Received Outstanding ROCHA Service Award (1989)

National Collegiate Computer Science Award (1988)

Scholastic All-American Award (1988)

National Collegiate Leadership Award (1988)

Honors List (1989)

All-American Scholar Award (1989)

Member, Golden Key National Honor Society

Member, Association for Computer Machinery (ACM)

Listed in Who's Who of Professionals

REFERENCES

Available upon request