

# Joseph P. Dunn

## Curriculum Vitae

2601 NW 23rd Blvd apt 128

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## Education

Ph.D. Computer Science, August 2007

Thesis title: *SafeShare: Secure File Sharing Across Trust Boundaries*

University of Colorado at Boulder

M.S. Computer Science, December 2003

University of Colorado at Boulder

B.S. Computer Science, May 2001

University of Arizona

## Employment

### Primary Software Developer, Owner

Iguanaworks Incorporated

Denver, CO

May 2005 to Present

#### *Duties:*

- Designed and implemented a cross-platform (Linux, Windows, OS X) driver for a USB infrared transceiver.
- Development of a boot loader and loadable firmware for the Cypress CY7C63812 embedded USB chip.
- Technical support and maintenance of existing software and firmware.
- Continuing creation and development of new products.

### Research Assistant

University of Colorado, Department of Computer Science

Boulder, CO

Adviser: Dr. John Bennett

August 2001 through May 2007

#### *Accomplishments and Duties:*

- Designed and implemented SafeShare, a web-based system for file replication, sharing, and management, allowing users to easily share file data based on trust relationships.
- In cooperation with Dan Crawl, designed and implemented a modular event routing system (Fern) focused on tracking and acting on file system events.
- Assisted in the design and development of the Bifrost system.
- Supervised undergraduate students developing code for the Bifrost and Fern research projects.
- Assisted in writing grant proposals.

### Lab Assistant and Instructor

University of Arizona, Department of Continuing Education

Tucson, AZ

October 1999 to June 2001

#### *Duties:*

- Prepared lab machines for MCSE, Cisco, A+ and other classes.
- Repaired, upgraded, and replaced computers as necessary.
- Occasionally taught Introduction to Java classes.

## Teaching Experience

### Instructor

University of Colorado, Department of Computer Science  
Boulder, CO

May 2006

#### Duties:

- Adapted materials for an undergraduate operating systems course
- Prepared the syllabus, projects, and exams.

## Publications

### Journals

*A Practical Cross-Layer Mechanism For Fairness in 802.11 Networks*, by Joseph Dunn, Michael Neufeld, Anmol Sheth, Dirk Grunwald and John Bennett. ACM/Kluwer Mobile Networks and Applications Journal. December, 2005.

### Conferences

*Just-In-Time Sensor Networks*, by Gary V. Yee, Brian Shucker, Joe Dunn, Anmol Sheth, and Richard Han. EmNets, May 2006 (Boston, Massachusetts).

*A Practical Cross-Layer Mechanism For Fairness in 802.11 Networks*, by Joseph Dunn, Michael Neufeld, Anmol Sheth, Dirk Grunwald and John Bennett. BroadNets, October 2004 (San Jose, California).

*Using Location Dependence to Manage Mobile Data*, by Daniel Crawl, Joseph Dunn, Avneesh Bhatnagar, Evan Speight, and John Bennett. Proceedings of the 3rd Annual International Conference on Mobile and Ubiquitous Systems: Networks and Services (MOBIQUITOUS 2006), San Jose, California. July, 2006. *Sequenced Subset Operators: Definition and Implementation*, by Joseph Dunn, Sean Davey, Ann Descour and Richard T. Snodgrass. Proceedings of the IEEE International Conference on Data Engineering (ICDE2002), February 2002, pp. 131-140.

### Workshops

*Application Management Techniques for the Bifrost System*, by Avneesh Bhatnagar, Evan Speight, Dan Crawl, Joseph Dunn, and John Bennett. Proceedings. Fifth IEEE Workshop on Mobile Computing Systems and Applications, p. 66, 2003.

### Technical Reports

*Adaptive Component Management in Bifrost*, by Avneesh Bhatnagar, Evan Speight, Dan Crawl, Joseph Dunn, and John Bennett. Cornell University Technical Report CSL-TR-2003-1030 – 2003

## Department Service

University of Colorado, Department of Computer Science  
Boulder, CO

### Executive Committee, graduate student representative

AY 2004-2005

#### Duties:

- Represented graduate student interests at biweekly “steering committee” meetings for the department
- Assisted in the department’s faculty search process by organizing groups of graduate students to meet with prospective faculty candidates

### Graduate Committee, graduate student representative

AY 2003-2004

#### Duties:

- Participated in biweekly meetings regarding graduate education policies

## Additional Skills

- Comfortable on Linux, Windows, or embedded devices using C/C++, Java, Python, or several types of assembly.
- 8 years of experience with Linux system administration, primarily using RedHat and Fedora.

References available on request.