

BRIAN HARDIE

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WORK EXPERIENCE

University of San Francisco, San Francisco, CA
Research Assistant - Department of Computer Science : 5/06 - 8/06

- Implemented a distributed web crawler in Python, built on top of the River Framework
- Developed an MPI implementation for River framework

Student Sys-Admin : 1/06 - Present

- Responsible for software installation and maintenance of Mac workstations using OS X Server and NetRestore, and PC workstations using RedHat Kickstart and Norton Ghost
- Set up mail/web server on Linux using Dovecot, Postfix, and Apache
- Assist students and faculty in troubleshooting various desktop and network issues
- Manage department's MSDNAA program
- Helped with specification, evaluation, and assembly of hardware for a dual-core Opteron cluster

Forbes Magazine, Burlingame, CA
Consultant - Publisher's Department / Operations : 7/01 - Present

- Internet research on information for various topics including cost analysis and availability of telecommunication applications
- Offered desktop support for for Macs, PCs, Blackberries, and printers
- Coordinated extension of the network infrastructure at the Burlingame office
- Managed purchasing/invoicing of technical assets

Fatbrain.com, Santa Clara, CA
IT Technician : 12/00 - 5/01

- Built machines running Windows 98, NT, and 2000.
- Provided support on applications and hardware
- Monitored network and web site using Sitescope and Webtrends

PROJECTS

- **Pintos OS:** Implemented process scheduling with priority donation, system calls, file system, and virtual memory system in C
- **smail:** Designed and developed a full-featured Java-based webmail system using servlets and StringTemplate for dynamic content generation with support for smtp, pop3, search, and a MySQL database backend
- **sJavac:** Wrote a compiler for a subset of Java that performed lexical analysis, syntax parsing, and semantic analysis, and output MIPS assembly
- **River:** Distributed runtime system written in Python
 - **rMPI:** Developed an MPI implementation from scratch based on a subset of the MPI 1.2 standard
 - **rCrawler:** Developed a configurable distributed web crawler that features robots parsing, keep-alive connection support, and HTTP redirects
 - **rState:** Currently developing a Universal State Management System that allows any River application to take advantage of checkpointing and migration

EDUCATION

- University of San Francisco, CA
Expected Graduation Date: 5/07
Major: Computer Science