
Objective My goal is to obtain a technical position where my skills in computer hardware and software repair, programming, and system administration can enhance the operation and performance of systems used for non-profit, business, academic, and scientific purposes.

Experience Departments of Scientific Computing, Statistics
Florida State University, Tallahassee FL 2009 Summer - Present



- Statistics tutor for Department of Statistics
- Data center assistant for Department of Scientific Computing
 - Physically adding and removing rack mounted servers
 - Troubleshooting server hardware issues
 - Assisting with development of Rocks Linux Cluster



Technology Support Services
Appalachian State University, Boone NC 2007 Summer - 2009 Summer

- Promoted to Technology Support Specialist. Responsible for:
 - Planning & deployment of University wide incident management system
 - Planning & deployment of University wide web CMS initiative using Drupal
 - Administration of Back-up, Ghost, & Network Boot (PXE) servers
 - Maintaining wikis for technical documentation & employee training
- Compiled Technical Resource Distribution
 - Automatically updated twice daily with BASH scripts by cron job
 - Configured rsync server to distribute to clients
 - Wrote BASH scripts for Linux, Mac, & Windows to burn CDs & sync USB disks
 - Used Syslinux to enable multi-booting & PXELinux for Network booting
- Deployed & maintained office back-up server
 - Red Hat Linux server: 12 disks totaling 5.6 TB of space in HW & SW RAIDs
 - Configured access to space using Samba
- Tasked with refreshing support.appstate.edu website
 - Developed Plone website following Plone Bootcamp training



Technology Support Services
Appalachian State University, Boone NC 2000 Fall - 2002 Spring
2004 Spring - 2007 Summer

- Walk-In Technical Support Supervisor
- Responsible for operation in evenings, during 2nd shift
- Supervised up to 30 student employees in technical & organizational manner
- Trained employees on the use of Knoppix Linux for data recovery
- Assisted with numerous Linux & BSD installations for clients
- Staff Advisor to Appalachian Gaming Club & Mac Users Group



Skills

Software and server administration skills checklist



- Windows, Linux, & BSD servers with Xen & VMware virtualization technologies
- Apache web server, MySQL, PostgreSQL, SQLite, MS SQL databases
- OpenLDAP & MS Active Directory
- Zimbra collaboration suite, including Postfix MTA and Openfire Jabber server
- Trac wiki and issue tracking, Subversion and Mercurial revision control systems
- BASH, Python, Perl, PHP, and C/C++ (and more) programming
- Plone, Drupal, Gallery2, ZenCart, and Mediawiki development & deployment

Education

Appalachian State University, Boone N.C.

2000 Fall - 2005 Summer



M.A. Mathematics, May 2005

- Focus on Differential Equations
- Masters Thesis
 - *Developing a Free Educational Tool & Instructional Material for Applied Mathematical Modeling Courses*
 - Instructional material derived from chemical & biological models
 - Wrote new user interface for XPPAUT, a dynamical systems solver, in C++
 - Used wxWidgets to target Windows, Mac OS X, & Linux / UNIX platforms
 - Newly developed GUI consists of ~25,000 lines of new C++ code
 - Interfaced new GUI with ~80,000 lines of legacy C code

B.S. Computer Science, June 2005

- Dual enrolled while completing Masters Degree in Mathematics
- Member of Appalachian Linux Users Group
- Software Engineering
 - Developed software on Windows, Mac OS X, & UNIX / Linux
 - Extensive experience with C, C++, & BASH shell scripting
 - Also Python, Assembly, Java, FORTRAN, COBOL, Lisp, Prolog

B.S. Applied Mathematics, May 2002

- Magna Cum Laude Graduate
- Minor in Statistics - Focus on Mathematical Statistics
- Strong background in technology, software, & numerical computation
- Focus on Mathematical Modeling
- Researched Cryptography - Focus on Advanced Encryption Standard



Surry Community College, Dobson N.C.

1998 Fall - 2000 Summer

- A.S. & A.A., May 2000
- Honor Graduate
- Second Place - 1998/1999 Mathematics Competition
- Recognized by Who's Who Among Students in American Junior Colleges

Interests & HobbiesGaming - Board games, Networked FPS, 2D & 3D fighting games

- Former advisor of ASU Gaming Club (<http://gaming.appstate.edu>)
- Special interest club with over 150 attendees at regular events
- Hosted large LAN events with many tournaments & complex infrastructure
- Oversaw regular LAN committee meetings

Camping & Hiking

- Eagle Scout, Boy Scouts of America
- Program Director for Elk Shoals, McCall, & Carolwood camps

Misc

- Mixed Martial Arts - Ultimate Fighting Championship fan
- Music - trumpet, guitar, & drums
- Programming - Using & developing free & open source software

References Available Upon Request