

Brent W. Woodruff

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Objective My goal is to obtain a technical where my programming and administration skills in BASH, Python, C, C++, and Linux can be used to create and deploy systems for business, personal, and educational computing.

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

- Promoted to Technology Support Specialist. Responsible for:
 - Development of new tools for support services
 - Development of new support website
 - Administration of Back-up, Ghost, and Network Boot servers
 - Maintaining wiki for technical documentation and 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 and Mac to create CDs and sync USB disks
 - Uses Syslinux to enable multi-booting and PXELinux for Network booting
- Deployed and maintained office back-up server
 - Red Hat Linux server - 12 disks totaling 5.6 TB of space in software RAIDs
 - Configured access to space using Samba
 - Automated squashfs archiving of back-ups using BASH
- Tasked with refreshing support.appstate.edu website
 - Developed Plone website following Plone Bootcamp training
 - Developing integrations with knowledge base and ticket tracking
- Developed RegRemove, a Free Windows registry editing program
- Planning to develop wxPython based task automation software

Technology Support Services 2000 Fall - 2002 Spring
Appalachian State University, Boone NC 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 and organizational manner
- Trained employees on the use of Knoppix Linux for data recovery
- Assisted with numerous Linux and BSD installations for clients
- Staff Advisor to Appalachian Gaming Clug and Mac Users Group

The Fiend Foundry, Hamptonville N.C. 2005 Spring - 2007 Summer

- Entrepreneurial Co-Founder and General Partner in on-line business
- Company produced miniature buildings and scenery for table top hobby games
- Oversaw company's technical needs
 - Configured Dell PowerEdge 850 with CentOS, Apache, PHP, MySQL, PostFix
 - Administer web, database, e-mail, FTP, and remote login servers
 - Initial configuration of services completed using ISPConfig software
 - Set up and customized Zen Cart, a PHP based web shopping cart

ASU Mathematics Department, Boone N.C. 2002 Fall - 2003 Fall

- Graduate Teaching Assistant 2002/2003, Instructor of Record 2003 Fall
- Taught Math 1020 College Algebra, preparing students for Business Calculus
- Developed instructional material and tests

Education	<p>Appalachian State University, Boone N.C. 2000 Fall – 2005 Summer</p> <hr/> <p>M.A. Mathematics, May 2005</p> <ul style="list-style-type: none"> • Focus on Dynamical Systems, esp. Differential Equations (DEs) • Apprenticed undergraduate DEs, took graduate Partial and Advanced DEs • Masters Thesis <ul style="list-style-type: none"> • <i>Developing a Free Educational Tool and Instructional Material for Applied Mathematical Modeling Courses</i> • Instructional material derived from chemical and biological models • Wrote new user interface for XPPAUT, a dynamical systems solver, in C++ • Used wxWidgets to target Windows, Mac OS X, and 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 <p>B.S. Computer Science, June 2005</p> <ul style="list-style-type: none"> • Dual enrolled while completing Masters Degree in Mathematics • Member of Appalachian Linux Users Group • Software Engineering <ul style="list-style-type: none"> • Developed software on Windows, Mac OS X, and UNIX / Linux • Extensive experience with C, C++, and BASH shell scripting • Also Python, Assembly, Java, FORTRAN, COBOL, Lisp, Prolog <p>B.S. Applied Mathematics, May 2002</p> <ul style="list-style-type: none"> • Magna Cum Laude Graduate • Minor in Statistics - Focus on Mathematical Statistics • Strong background in technology, software, and numerical computation • Focus on Mathematical Modeling • Researched Cryptography - Focus on Advanced Encryption Standard <p>Surry Community College, Dobson N.C. 1998 Fall - 2000 Summer</p> <hr/> <ul style="list-style-type: none"> • A.S. and A.A., May 2000 • Honor Graduate • Second Place - 1998/1999 Mathematics Competition • Recognized by Who's Who Among Students in American Junior Colleges
Interests & Hobbies	<p>Gaming - Pen and Paper RPGs, Networked FPS, 2D and 3D Fighting</p> <hr/> <ul style="list-style-type: none"> • Advisor of ASU Gaming Club – http://gaming.appstate.edu • Special interest club with over 150 attendees at regular events • Hosts large LAN events with many tournaments and complex infrastructure • Oversaw regular LAN committee meetings <p>Camping and Hiking</p> <hr/> <ul style="list-style-type: none"> • Eagle Scout, Boy Scouts of America • Program Director for Elk Shoals, McCall, Carolwood Methodist camps <p>Misc</p> <hr/> <ul style="list-style-type: none"> • Mixed Martial Arts - Ultimate Fighting Championship fan • Music - Trumpet, Guitar, and Drums • Programming - Using and developing Free and Open Source Software

References Available Upon Request