

Brian Bergstrand
brian@bergstrand.org

Certifications:

NetWare 5 CNA

Red Hat Certified Engineer (RHCE) Cert #: 806199594100877

Qualifications:

Programming Languages and APIs: C/C++/Objective C, BSD UNIX Kernel API, Mac OS X Kernel KPI, POSIX, Cocoa, PHP/Shell/Perl scripting

Network Protocols: NCP /NDAP , HTTP, FTP, SLP

Operating Systems: Mac OS X, UNIX, NetWare, Windows

Other: Significant experience with kernel, multi-threading and networking code. GDB , Network Packet Analyzers (for debugging network protocols on-the-wire), SQL, HTML/CSS, L^AT_EX, SVN & CVS.

Experience:

Prosoft Engineering, Inc.

Pleasanton, CA (Tele-Commute from IL)

Software Engineer

6/2001 - 4/2003 & 11/2003 - Present

- **Drive Genius 1.5.x**

- Lead developer (for a team of three)
- Complete re-write using Cocoa
- Responsible for overall design, architecture, and scheduling
- Provided threaded disk management module using Disk Arbitration and IOKit

- **Netware for Mac OS X**

- Ported Windows NT networking and file system kernel drivers to Mac OS X 10.1 kernel
- Ported 10.1-10.3 kernel drivers to Mac OS 10.4 KPI
- Ported entire product to Mac OS X Intel
- Implemented brand new features (64bit file support, printing, etc)
- Wrote end-user documentation guide
- Primary developer since 2003
- Shipped fifteen updates (including four major updates)

TDF Corporation

Rock Island, IL

UNIX System Administrator

4/2003 - 11/2003

- Administrator and maintain over twenty-five HP-UX servers of several hardware vintages (K,L,R and D Class) and several OS versions (10.1 - 11i). Several of the servers have over five-hundred users.
- Responsibilities included: user management, software/patch management custom script programming and security.

Northern Illinois University
DeKalb, IL

Systems Programmer, Network Administrator
7/1997 - 6/2000

- Management of NIU network using HP OpenView software.
- Installation and administration of HP-UX 10.2 and 11i (11.11) systems.
- Development of Web based change management system using PHP and MySQL
- Installation and administration of CiscoSecure ACS for Solaris and Solaris 8 operating system.
- Responsible for all client OS development (Linux,MacOS,Win95/NT - using C/C++ and scripting)
- Use of NAL and ZenWorks to create program distributions for Win95.
- System administration of departmental Linux server (DNS, sendmail, apache (including ssl), ssh, netatalk, etc)
- System administration of NIU [student web server](#), including customization of Apache web server source for NIU use.
- Designed and engineered [DS Login](#) for connecting MacOS 8/9 computers to NIU's NDS network in. DS Login is also used by hundreds of third-party users.
- Manage a team of student technicians
- Install and maintain software on network servers
- NetWare administration responsibilities
- Support Technical needs of Labs and ACS Staff
- Teach PC Technician Training class

Personal Projects

Software Design and Engineering
4/1996 - Present

- Lead developer for several Open Source projects:
 - [PeerGuardian Firewall](#)
 - [EXT2 \(Linux\) filesystem driver Mac OS X](#)
 - [NTFS \(Windows\) filesystem driver Mac OS X \(10.2.x\)](#)
 - [iScrobbler last.fm Client](#)
 - [ChangeDesktop](#)
- Minor contributions to several other Open Source projects:
 - [Fire IM Client](#)
 - [HexEdit File Editor](#)
- Design and implement the [classicalguitar.net](#) web site using an SQL database and PHP to develop interactive dynamic web pages
- Design and develop several Mac OS 8/9 Shareware and Freeware applications

Education:

Northern Illinois University
DeKalb, IL
Cumulative GPA: **3.67 / 4.0**

Bachelor of Science
Operations Management Information Systems
Cum Laude, May 1998

Black Hawk College
Moline, IL
Cumulative GPA: **4.0 / 4.0**

Associate of Arts
Music Business
Summa Cum Laude, May 1995

Honors:

- Dean's list, Northern Illinois University 1995-1998
- Dean's list, Black Hawk College 1993-1995
- Phi-Theta Kappa National Honor Society

Professional Training:

- Netware 5 Administration - Course #560
- Netware 5 Networking Technologies - Course #565
- ZENWorks 2 Mastery Training
- Redhat Linux Administration - Course #RH300
- HP Openview Network Node Manager on UNIX - Course #B4743