

# Patrick G. Salsbury

Email: [<salsbury@sculptors.com>](mailto:salsbury@sculptors.com) | [<salsburyp@gmail.com>](mailto:salsburyp@gmail.com) | <http://reality.sculptors.com/~salsbury>  
644 Snyder Drive, Los Gatos, CA 95033 - 408-353-8247

## Objective

A challenging, full-time or contract position that provides me with opportunities for learning and growth. Looking to work in a technical, Unix/Linux-based environment with very technical people. Looking for positions at the Senior System Administrator or above.

## Recent Activities and Current Interests

- Concept-designed a [5.5 MW solar power plant for the new Facebook Campus](#), using parking shade-structures. (An outgrowth of my previous work with Foothill College a few years ago.)
- Digging into the guts of my home Windows & Unix systems to figure out what's going on with the system internals, tracing processes, tuning the file system, analyzing traffic, etc.
- Using some of these new tools & techniques to also trace & diagnose some faults & problems in our mixed wired/wireless home network & long-distance wireless broadband connection. (This was my major Geek Project for the summer of 2010.)
  - Have had some really satisfying accomplishments:
    - Reduced packet loss and latency over the wireless links
    - Increased throughput and reliability
    - Even worked out some mysteries that have bothered me for the past year or two! (It's been nice to finally figure out some of these things that seemed random & without any cause. There *were* causes, but really obscure & esoteric ones, buried deep in the protocols, configurations, and hidden faults of various routers & radios and even the physical cabling on the network.)
  - Completed the last major phase of this upgrade in Fall, 2010, having installed a new set of 4G radios that have been performing admirably.
    - Update: Best speed test results (thus far) on the new wireless link to my house have been rated by Speedtest.net to be [faster than 99% of the US](#). (51.44 Mb/s down, 24.46 Mb/s up) This is even more astonishing when you see [where I live!](#) :-)

## Computer Experience

SAGE Senior Administrator: <http://www.sage.org/field/jobs-descriptions.html#Senior>

### **Technical Consultant – Unix Group at Taos (11/10 – present)**

Returned to Taos for another interesting & fun consulting gig.

### **Linux Administrator – Corporate Infrastructure Team – Facebook (11/10 – 6/11)**

- Tending to the care & feeding of linux servers for the internal Facebook corporate network. (Not the public website.)
- Responsible for ~130 Linux servers, both physical and VM-based. General maintenance of existing systems, and provisioning of new systems as required for projects.
- Was primary support for the Oracle Team that ran Business Intelligence for Facebook.
- Lots of “archaeology” on this job. The Linux environment was unknown at start, and previous Linux admin was gone, so lots of digging, exploring, and mapping out the network as it was discovered.
- RHEL, CentOS, Ubuntu, Oracle Enterprise Linux, dsh, svn, VMWare/ESX, Nagios.

- Trained staff on Linux-related issues. Wrote documentation. Developed procedures for day-to-day management of systems.

### ***Technical Consultant – Unix Group at Taos (3/10 – 8/10)***

Once again working on Taos' team of technical Unix/Linux consultants, providing system administration services to Taos customers on a contract basis.

### ***Technical Consultant – Unix Group (Game Operations) at Gazillion Entertainment (3/10 – 5/10)***

- A member of the Game Operations team at Gazillion, responsible for part of the 24/7 operation, monitoring & management of Gazillion's production network hosting massively multiplayer online (MMO) games.
- Part of the team responsible for many of the scheduled maintenance windows during my time at Gazillion, interfacing with others from multiple companies to coordinate code pushes as we released new versions of the software into production and managed the dozens of servers that made up the game environment.

### ***Sabbatical (3/09 – 2/10)***

### ***Technical Consultant – Unix Group at Taos (3/08 – 2/09)***

A member of Taos' team of technical Unix/Linux consultants, providing system administration services to Taos customers on a contract basis.

### ***Postmaster Team at Apple (9/08 – 1/09)***

- Worked as part of the team of Postmasters in charge of Apple's Email and Collaboration Services and Enterprise Mail Systems.
- Projects involved work on upgrading/maintaining corporate FTP servers and maintaining <http://lists.apple.com/> - Consisting of ~160 mailing lists serving ~150,000 members of the Apple user community.

### ***System Administrator – Unix Team at Ingenuity Systems (3/08 – 8/08)***

- Part of a 4 person team of dedicated Unix admins working on a 200+ server Unix (Solaris and Linux) environment, including hardware, software, operating systems and host security. Also responsible for network monitoring and management using Nagios and other tools.

### ***Sabbatical / Student (4/06 – 02/08)***

- Fall 2006 - Spring 2007: Took classes in introductory and advanced Geographic Information Systems (GIS) at Foothill College, Los Altos, CA. Gained familiarity with several commercial GIS packages (ArcGIS, Geomedia, Idrisi).
- Specialized in locating, evaluating, and learning how to implement open-source GIS tools and packages (SAGA-GIS, Geoserver, various data conversion tools).
- Learned techniques to use GIS for analysis, mapping/cartography, and solving geospatial problems. Also learned basics of remote sensing and satellite imagery/analysis, and how to integrate this with other GIS tools to analyze global issues.
- Performed solar-input analysis and designed a 3.2 megawatt solar array that could power the entire Foothill campus with the energy that falls on one parking lot. ([http://reality.sculptors.com/gallery/view\\_album.php?set\\_albumName=Foothill-solar](http://reality.sculptors.com/gallery/view_album.php?set_albumName=Foothill-solar))
- Strong interest in continuing GIS research.

### **Senior Unix Administrator, Engineering Division - Intransa, Inc. (6/05 – 3/06)**

- Senior Unix Administrator of the Engineering Division of Intransa, who make large-capacity, highly scalable network storage devices (IP SAN) using the iSCSI protocol.
- Was responsible for infrastructure, network monitoring & management, backups.
- Supported scores of Linux servers, both in production and research networks, as well as the engineers in QA, and Development.

### **Chief \*nix Officer – Etheric Networks (8/03 – 3/05)**

- Responsible for most aspects of IT and Technical Support (internal and customer) for a wireless broadband ISP, including technical analysis, troubleshooting, network design and architecture, and all things relating to Unix/Linux-based servers, network- and radio-devices. This includes DNS, Sendmail, User Accounts, Nagios network monitor.
- <ObGeek>Designed and built a solar powered ridge-top radio relay, which currently provides non-line-of-site, multi-megabit (symmetric) wireless broadband service to my geodesic dome-home in the redwoods. Have been working to expand service to several neighbor houses on our mountainside.</ObGeek>

### **Sabbatical (6/01 – 8/03)**

### **Network Design and Engineering Consultant – Predictive Systems (5/98 – 6/01)**

- Worked on solo and team projects to address networking issues and projects for Predictive's Fortune 1000 customers. Helped design and build networks, Network Operation Centers, network monitoring and management systems, and network performance systems for ISPs, major networking equipment manufacturers, telcos and other large companies deploying and operating complex networks.
- Worked on projects in all four of Predictive's main practice areas: Network Design and Engineering / Enterprise Network Management / Performance Management / Information Security

### **Senior Unix Administrator – ClariNet Communications Corp. (5/96 – 3/98)**

- Responsible for maintaining ClariNet systems and making sure that the 1200+ clari.\* newsgroups continued their feed of newswire services to the Internet and ClariNet's approximately two million subscribers. This was a 24/7 operation, with associated responsibilities.

### **System Administrator – The Santa Cruz Operation (SCO) (4/95 - 5/96)**

- System Administrator
- Postmaster/Newsmanager/Webmaster for SCO
- Building Administrator of Product Development Center

### **Technical Support/System Administrator – Visionware (5/93 – 4/95)**

- Technical Support Engineer/Part-Time System Administrator
- Full-Time System Administrator/Webmaster

### **Related Personal Skills**

- Extremely quick learner. Extensive customer support experience (in person and on phone).
- Work extremely well with others. Very strong background in problem analysis and designing comprehensive solutions.
- Comfortable and experienced with interviewing prospective hires and training junior staff.
- Specializing in and strong advocate of Open Source software.

## Security Experience

Past positions have had security clearance at all levels in corporate environments (non-military clearances), from root passwords on critical corporate servers to keys for every room and office on campus.

## Languages

- awk, Expect, HTML, LISP, Perl, procmail, Unix System Programming
- Shell scripting: bash, csh, sh

## Education

State University of New York at Buffalo (SUNY Buffalo) - Independent Major

B.A. in Design Science: <http://reality.sculptors.com/~salsbury/Articles/Design-Science-proposal.txt>

## Operating Systems

Active	Duration
Linux	17+ years (1994-present)
FreeBSD	10+ years (2001-present)
Microsoft Windows	18+ years (1993-present)
Inactive	
SunOS (Sun 4.1.x)	7 years (1989-1995)
Solaris (Sun 5.x)	11+ years (1994-2005)

Most Recent Update: June 06, 2011