

# Patrick G. Salsbury

## IT Consultant – Linux/Unix Administrator

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### **Objective**

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

I enjoy solving puzzles and problems, and making sure that the network works well, so that everyone else can get their work done.

### **Notable Geek Activities and Interests**

- Recent years have found me studying music again to a large extent. I love figuring out how to use vintage and modern synthesizers (hardware and software) to make cool sounds and music. Especially the complex/technical units with all the knobs, switches, and wires, or the modern software versions with really strange/creative user interfaces.
- 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 previous.)
- Traced and diagnosed some faults and problems in my mixed wired/wireless home network and long-distance wireless broadband connection. (This was my major Geek Project for the summer of 2010.)
  - Reduced packet loss and latency over the wireless links
  - Increased throughput and reliability
  - Best speed test results on the wireless link to my house have been rated by Speedtest.net to be 51.44 Mb/s down, 21.16 Mb/s up – which was [faster than 99% of the US](#) (...in 2010. Things have improved in the US since then.) This is even more astonishing when you see [where I live!](#) :-)
  - Part of the system sits on a nearby ridge, running a couple of repeater radios on a solar powered battery system, because my house is not line-of-sight to the tower. I designed that, too. :-)

### **Computer Experience**

[LISA/SAGE](#) Senior Level Administrator

### **Work History**

#### **IT Consultant/Linux Administrator – Universal Audio (01/14 – 05/15)**

- Brought in to administer the Linux-based systems at UA and troubleshoot problems on the network.
- Tamed an out-of-control Nagios implementation that was paging the IT team to the point of sleep-deprivation.
- Responsible for monitoring and management of the overall network, and specifically of the hosted web/database presence at Rackspace, which ran the online web store.
- Responsible for Payment Card Industry (PCI) related monitoring and security checks/patching/upgrades.

- Left 831 pages of documentation/notes on my activities for future admins to utilize.

### **Sabbatical (09/13 – 01/14)**

### **Technical Consultant – Unix Group at Taos (08-09/13)**

#### **Linux Consultant – USGS Pacific Coastal and Marine Science Center (08-09/13)**

- This was a short and sweet project (via Taos), where I was brought in on a limited-scope/timeframe to do some surgery on a couple of servers that had been offline for 9 and 18 months, respectively. One was up and running, but not networking with any of the other machines, and another would no longer boot into graphical (X-Windows) mode, both were preventing the team from utilizing them for their work. Also did some work to set up Samba services, and other general troubleshooting.

### **Sabbatical (09/11 – 08/13)**

### **Technical Consultant – Unix Group at Taos (11/10 – 09/11)**

#### **Linux Administrator – Corporate Infrastructure/Postmaster Team – Facebook (11/10 – 06/11)**

- Tending to the care and 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.
- Worked closely with Facebook Security, Networking, Storage, and other teams as required for anything Linux-related on the corporate network.
- Lots of “archaeology/detective work” on this job. The Linux environment was unknown at start, and the previous Linux admin was gone, so there was a lot of digging, exploring, and mapping out the network as it was discovered.
- Trained staff on Linux-related issues. Wrote documentation. Developed procedures for day-to-day management of systems.
- Primary operating systems and tools: RHEL, CentOS, Ubuntu, Oracle Enterprise Linux, VMWare/ESX, dsh, svn, Nagios.

### **Technical Consultant – Unix Group at Taos (03/10 – 08/10)**

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 (03/10 – 05/10)**

- A member of the Game Operations team at Gazillion, responsible for part of the 24/7 operation, monitoring and 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 (03/09 – 02/10)**

#### **Technical Consultant – Unix Group at Taos (03/08 – 02/09)**

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 (09/08 – 01/09)**

- 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 (03/08 – 08/08)**

- 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 (04/06 – 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. (06/05 – 03/06)**

- 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 and 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 (08/03 – 03/05)**

- 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 (06/01 – 08/03)**

### **Network Design and Engineering Consultant – Predictive Systems (05/98 – 06/01)**

- 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. (05/96 – 03/98)**

- 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) (04/95 – 05/96)**

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

### **Technical Support/System Administrator – Visionware (05/93 – 04/95)**

- 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 very well with others. 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***

- In the past, have worked on projects using: 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**

<b>Active</b>	<b>Duration</b>
General Unix/Linux	26+ years (1989-present)
Linux	21+ years (1994-present)
FreeBSD	14+ years (2001-present)
Microsoft Windows	22+ years (1993-present)
Mac OSX	7+ years (2008-present)
<b>Inactive</b>	
SunOS (Sun 4.1.x)	7 years (1989-1995)
Solaris (Sun 5.x)	14+ years (1994-2008)
SCO Unix	4 years (1993-1997)

## **Version**

[Most Recent Update](#): August 25, 2015