

Jordan Mendler

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Objective To obtain a position in Systems Administration, Software Development or a hybrid area of computing

Education

University of California, Los Angeles

Postgraduate Study, January 2008-Present

GPA (27 units completed): 4.00/4.00

Coursework: C++, C, SQL, Java, Computer Science/Theory, Computer Engineering

University of California, Los Angeles

Bachelors in Psychology, completed June 2007

GPA (last 58 units): 3.91/4.00

Coursework: Physiological Psychology, Psychopharmacology, Math, Physics, Biology and Chemistry

IT Skills & Experience

Operating Systems

Linux/UNIX: Debian/Ubuntu, Red Hat/CentOS/Fedora/ROCKS, FreeBSD, Gentoo, Solaris/OpenSolaris

Other: Windows NT/2000/2003 Server, some Mac OSX Server

Applications (excerpt)

Clustering/High Availability: Sun Grid Engine, ROCKS, Perceus, Linux-HA/Heartbeat, reverse proxies, some Hadoop

Web Stack: Apache, Lighttpd, Darwin Streaming Server, Solr (search), Heritrix (crawler), Nutch (crawler)

Databases: PostgreSQL, some MySQL, interest in Hbase and HyperTable

Infrastructure: Dhcpd, some {Bind DNS, Sendmail}, Windows DNS, MailEnable

Storage: Lustre, MogileFS, HDFS, GlusterFS, ZFS, large-scale NFS, Samba, mdadm, LVM, Legato Networker

Automation/Provisioning: Puppet, Perceus, Kickstart, TFTP/Netboot, Custom RPMs and Yum/RPM repositories

Monitoring/Logging/Security: Cacti, Ganglia, Big Brother, AWStats, Syslog, Spreadlogd, IPTables, AIDE, Fail2Ban

Virtualization: VMware Workstation, Xen

Software Development (in order of experience)

Perl, Bash, RPM development, C++, Make, SQL, C, MIPS Assembly, Java

Systems Architect/Software Engineer, *DNA Microarray Core, UCLA Human Genetics Department* June 2007-Present

Systems Administrator (Contracted)

March 2006-June 2007

- Co-developed and maintained a genome processing pipeline to support \$5 million of genome sequencers
- Oversaw a shared, heterogeneous computation cluster with 140 nodes and integrated it with our pipeline
- Designed and negotiated over 500TB of tiered disk storage at 15% of the cost of equivalent commercial storage
- Developed a public RPM repository and a self-contained multi-platform build farm infrastructure

Chief Operations Officer (Contracted), *TinyTube Networks (<http://tinytube.net>)*

January 2008-Present

Director of Operations (Contracted)

June 2007-December 2007

- Implemented highly-available and scalable web, search and video serving clusters and the surrounding infrastructure
- Wrote a video retrieval and transcoding system to find embedded videos in any upstream website and convert them to mobile format on demand
- Co-designed and implemented web crawling, video indexing and distributed storage back-ends
- Maintained and extended an existing Perl Catalyst/Template-Toolkit web front-end
- Contributed to site growth, user analysis and business development

Senior Software and Networking Specialist (Contracted), *PowCloud (<http://powcloud.com>)*

June 2009-Present

- Designed a public API and software stack atop Solr to provide highly-available search services to hosting customers
- Contributed provisioning, scalability and operations expertise as pertains to cloud computing and hosted search

Instructor, *UCLA Extension*

January 2010-March 2010

- Hired to create and teach a new course in *Linux Cluster Administration and High Performance Computing*

Systems Administrator, *Ctrl, UCLA David Geffen School of Medicine*

March 2006-June 2007

- Second in command Linux, UNIX and Windows administrator for more than 50 servers and over 200 workstations

IT Experience (continued)

Systems Administrator (Contracted), *UCLA Laboratory of NeuroImaging*

June 2006-April 2007

- Helped administer approximately 600 servers and cluster nodes, two tape silos and multiple disk arrays

Network Administrator, *Bridges Academy, Sherman Oaks, CA*

1999-2001

- As a student, was responsible for a T1 connection, legacy UNIX server and supporting over 50 end-users

Technical Support Agent, *Los Angeles Free-Net, Encino, CA*

1998-2001

- Provided technical support to customers of a non-profit Internet Service Provider via telephone, email and web

Summary of Public Projects

Open Source

- SeqWare Pipeline, LIMS and Datawarehousing Projects (<http://sf.net/projects/seqware>)
- Biopackages RPM Repository (<http://biopackages.net>)
- Biopackages RPM Build-Farm Infrastructure (<http://sf.net/projects/biopackages>)
- Celsius Microarray Datawarehousing Project (<http://sf.net/projects/celsius>)

Closed Source

- PowCloud hosted Solr search service (<http://powcloud.com>)
- TinyTube mobile video website (<http://tinytube.net>)
- PocketVOD web-to-mobile video proxying service (<http://pocketvod.com>)

Additional Volunteer & Leadership Experience

- Honed teamwork skills while building low-income housing as a volunteer for *Habitat for Humanity*.
- Developed leadership, interpersonal and multi-tasking skills while simultaneously volunteering at three rehabilitation clinics: *SMART Recovery, Matrix Institute and VA Medical Center*. Led, co-led, and founded several weekly groups.
- At age 15, founded *JDM Enterprises*, a business selling automotive parts on the Internet. Posted profits in three consecutive years and rose to the highest sales tier of a performance parts manufacturer.
- Cultivated coaching and teaching experience by tutoring a learning-disabled teenager and community college students.
- Recreationally enjoy auto repair, handiwork, building, beer brewing and surfing.

Publications

- O'Connor, **Mendler**, Nelson: "SeqWare: A Laboratory Information Management System and Data Analysis Workflow for Next Generation Sequencing Platforms" (*Submitted*)
- Day, O'Connor, **Mendler**, Fox, Nelson, Stein: "Biopackages.net: Bioinformatics Libraries, Applications, and Data as Operating System Packages" (*In Preparation*)