

James E. (Jed) Donnelley

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Senior DevOps Engineer, Software Engineer, Systems Administrator

Many years experience in commercial, government, and academic settings listening carefully, working with teams, and using Agile methodologies to translate system requirements into secure, well performing, and easy to maintain systems with automated builds (immutable), configuration management, and system monitoring. Strong team building, teaching, presentation and writing skills. I've been a programmer throughout my career and find that I'm most satisfied with my professional work if I'm doing at least some programming.

Professional Experience:

Guidewire Software

Sept 2015-Present

While at Guidewire my title has transitioned from Software Engineer, to DevOps Engineer, to Senior DevOps Engineer. During this time I've been part of a team that's moved the Guidewire CI/CD environment from bare metal, to VMWare and then to AWS with an emphasis on Docker images, from Jenkins and a home grown CI system to mostly TeamCity. I am certified as an Agile ScrumMaster and transitioned to more Agile development. Much of my work during this time is in support of various DevOps services like BitBucket/Perforce, Artifactory/Nexus, Blackduck, IntelliJ, Confluence, Jira/ServiceNow, test Dbs (Oracle, Postgres, SQLServer), Slack, and security infrastructure (SSH jump systems, IPTables/firewalld, CyberArk Password Vault, Centrify, Okta, Thycotic PAM, and AWS security). I've also been involved in improving monitoring with technologies such as Prometheus/OpsGenie, Sumo, Nagios, and New Relic. During this time I've often been called to write programs in Python, Perl, Java/Groovy, and Shell. I use build/configure technologies like Terraform and Ansible. I manage SSL certificate updates and software licenses.

Taos Mountain contractor to Guidewire Software

Aug 2014-Sept 2015

Contracting to Guidewire Software as a Linux Sysadmin supporting 400+ servers (25% VMs from VMWare and OpenStack) in a DevOps environment that emphasizes large databases. Managing about 1/2 petabyte of SAN storage from NetApp, EMC, Supermicro, and Dell RAID being accessed by mostly Dell servers and blade chassis from Dell, IBM and Supermicro. This work emphasized support for performance testing, focusing on configuration management for build automation. Initial work automated Oracle RAC installs using open source configuration management software along with custom build code that I wrote.

MyPoints division of United Online Senior Linux and Network Administrator

Sep 2008-May 2014

Gradually took over administration for some 500 Redhat Linux servers (perhaps 10%

Esxi VMWare) in two colo centers (one on each coast), featuring MySQL and Hadoop clusters, and numerous Linux workstations. Automated system builds and configuration management. Especially adept at communicating with team members for requirements and then at programming in those requirements for process automation. Wrote a configuration management system (~10k lines open sourced) that allowed MyPoints to reduce their system administrators gradually from 3 to 1. Worked their Nagios monitoring to reduce their on-call critical alerts from 4-5/week to 1-2/month.

UC Lawrence Berkeley National Laboratory, NERSC
Computer Scientist

Dec 1997-July 2008

Managed the transition of the NERSC servers from Solaris to Linux. Managed Web, LDAP, DB (Oracle), Nagios, CFEngine, and many other services. Worked on a team to evaluate and purchase a \$30M scientific computer system.

UC Lawrence Livermore National Laboratory
Computer Scientist

June 1995-Dec 1997

Research and development of parallel I/O software and protocols (MPI/IO), Web/DB Apache/Oracle development for classified engineering records. DOD SCI clearance.

University of Stuttgart Computer Center, Stuttgart, Germany
Computer Scientist

April 1994-April 1995

Research on Internet multicast and Web protocols, early international Internet TCP/IP performance analysis work, conference presentations.

UC Lawrence Livermore National Laboratory
Computer Scientist

Sept 1972-April 1994

Operating system security and networking research, lead development of a network operating system. DOE Q clearance. Software development and systems administration leader for a \$1B+ scientific computer center. Computer systems and network research, group and project leading.

Numerous consulting and teaching roles for Aerospace Corp., Dieterich Glasrund and Jones, EDP Audit Control, American Supercomputer, University of Calgary, Rockwell International, Defense Airborne Reconnaissance Office, and Raytheon.

Education:

University of California, Davis: MS Mathematics, BA Physics, BS Mathematics
Department award for outstanding achievement in undergraduate mathematics

Numerous peer reviewed publications: <http://www.webstart.com/jed/Publications.html> including:

Mark S. Miller (Google Research), James E. Donnelley, and Alan H. Karp (Hewlett Packard), *Delegating Responsibility in Digital Systems: Horton's "Who Done It?"*: (<http://www.erights.org/elib/capability/horton/>), presented at the 2nd USENIX Workshop on Hot Topics in Security (*Hotsec '07*), Boston, August 6, 2007.

Presentations: Numerous conference, teaching and tutorial presentations