Jud Martin Dagnall

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Objective

A full time lead engineering role building applications and tools to support core business needs

Highlights

- 10 years experience leading core engineering teams developing LAMP applications as a developer and manager
- Entrepreneur and self-starter who thrives on a variety of new challenges and continual progress
- Linux and Windows system administrator for 3+ years
- Technical instructor for 3 years with excellent communication and documentation skills

Technical Skills

• Strong Python, Perl, MySQL, LAMP • mod_perl, PHP, Javascript, CSS, AJAX and XML • MySQL schema design, database optimization • Zope/Plone application server & content management • REST, XML-RPC, JSON • Agile, Unit Testing, test-driven development	• Unix shell programming in bash • Linux administration, Apache, ssh, CVS, rsync • Revision Control Systems: Subversion, CVS, RCS • Continuous Integration (CI) • Some Java, C++, and C

Professional Experience

2004-present   Yahoo!, Inc., Sunnyvale, California

Senior Engineer, Cloud Infrastructure

Joined an elite team building Yahoo!'s next generation cloud provisioning and deployment system
- Responsible for the design, specification and implementation of a security service component in Java with a REST API
- Moved several generations of the project onto agile development, including test-driven-development and continuous integration using Hudson and other open-source tools
- Working on a system that combines virtual machine configuration, network setup and application stack deployment, handling concurrent asynchronous requests via a REST interface

Engineering Manager - Developer Tools

Lead engineering teams developing Yforge, Yahoo's TWiki, and Yahoo's deployment dashboard
- Promoted to engineering manager based on successful completion of multiple projects
- Hit release milestones consistently on schedule

Lead developer for Yforge, an internal tool providing a unified view of shared technology components and software across Yahoo!

- Presented to and met with senior management (VP, SVP) to define requirements and get buy-in
- Integrated data from bug tracking, package management, asset tracking, mailing lists, TWiki, source control systems, and other sources into a central interface with tagging, search and browse
- Achieved rapid development schedule making use of mod_perl, Perl Template Toolkit, Rose::DB relational object mapper, MySQL, JSON, Apache and AJAX UI components
- Coordinated activities of up to 6 engineers in the US and Bangalore

Lead developer for Yahoo!'s Bugzilla, one of the largest known Bugzilla instances in the world

- Increased performance on key pages by 50%, decreasing required number of database calls by 90%
- Developed and managed BCP strategy to provide efficient failover
- Coordinated integration of code changes from Mozilla.org's codebase

Developer Tools Toolsmith

- Created numerous productivity tools used on thousands of machines across Yahoo!, including:
- ybug, a perl CLI and SDK for Yahoo!'s custom bugzilla REST API, including templating, caching and scripting
- syn and ycvs, wrappers for version control clients with better bug tracker integration
- Yahoo::Config::Dirtree, internal perl module for hierarchical config management

2000-2004 Silicon Graphics (SGI), Mountain View, California
Software Engineer, MTS2
Responsible for mission-critical content management system driving SGI's customer support web site http://support.sgi.com
Promoted from contractor to permanent engineer position with the research and development unit of SGI's customer support business
- Designed and extended Content Management System (10,000+ documents) in python using open source technologies including Zope, Apache, CVS and Linux
- Lead developer: scheduled, prioritized, designed, formulated standards and tested software
- Built tools to exchange and repurpose data from J2EE, Sybase, Oracle and proprietary database systems
- Reduced static page build times by approximately 50% by refactoring and rewriting Perl database software and CGIs

1997-2000 York School, Monterey, California
Technology Coordinator and Computer Science Teacher
Linux and windows system administrator for a network of 35 nodes supporting over 200 faculty, students and administrators
Technical instructor for C++, MS Office, and multimedia applications courses
- Deployed and debugged database system for automatic report card generation, including writing Perl and bash code to overcome serious conflicts in proprietary software
- Decreased processing time for report cards by 50% year over year
- Maintained Samba file server, Apache web server, Squid proxy server, and sendmail on Linux, with responsibility for system security, backup, hardware/software troubleshooting and maintenance
- Created technology curriculum and taught workshops for students, staff and outside professionals
- Budgeted and authorized all technology purchases; prepared technology plan for successful grant

1993-1997   Miracles Unlimited Electrical Engineering,   Aptos, California
Electrical Designer, Computer Consultant
Responsible for system administration, automation and many aspects of business development for a small startup company

- Windows operating system maintenance, backup and evolution consultant
- Wrote text processing software that greatly decreased entry time in AutoCAD
- Instrumental in building up a client base via face-to-face sales presentations.
- Produced electrical construction documents for a wide variety of commercial sites using AutoCAD

1992   Bristol Myers Squibb Pharmaceutical Research Institute,   Princeton, New Jersey
Computer Consultant
Worked with senior researcher to build pharmaceutical research software

- Integrated a 3-D visualizer with a molecular-simulation program
- Partially ported a UNIX application to Silicon Graphics IRIX with a Graphical User Interface in C

Education

- Princeton University, Bachelor of Computer Science, 1992
- National Achievement Scholar, $8000 Robert W. Woodruff Foundation Scholarship
- National Merit Scholarship Finalist

Personal Notes

- Wrote, directed and produced a 22 minute short film thriller, The Road From Here
- Princeton volleyball team captain, coached high school volleyball
- Interests include photography, Krav Maga, and woodworking