James Pearson Hughes

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Summary

Site Reliability Engineer particularly interested in **failure analysis**, **security**, and **performance**, and, most importantly, the **human aspect** of each of these. Obsessed with high-quality technical documentation. Prolific open-sourcer with over 150 Github repos and patches accepted into over 40 projects. Author and maintainer of 9 git/Github tools, 11 RubyGems, 9 Python packages. Top 0.5% user on Stack Overflow, Server Fault, and Information Security Stack Exchange.

Professional Experience

Stealth Startup

DevOps Engineer — **December 2015 – present**

Introduce operations practices and tools into a rapidly growing company.

Work on a wide range of tasks, including web development (Flask, Pyramid, custom C++, custom Python), build systems (Bazel), an in-house deploy application, operations for several dozen applications, network security, AWS user support, software documentation, and organization-wide standards.

reddit, Inc.

Software Engineer — **August 2014 – December 2015**

One of half a dozen engineers responsible for user-facing features on reddit.com, a site with over 200 million monthly active users.

Fixed many bugs and annoyances that had been present for years.

Built relationships with third-party add-on developers and community moderators.

Implemented an A/B testing framework, a new comment sort and display algorithm, one of the most well-received features in site history (non-silent sidewide bans), and an expanded image preview system used by mobile web and third-party apps.

Constantly refactored, documented, and added tests.

Most work available for perusal at https://github.com/reddit/reddit .

iFixit

Web Operations Lead Engineer — **June 2012 – August 2014**

DevOps Engineering Intern — **March 2011 – June 2012**

Implemented caching system that prevents previously-frequent media-induced downtimes.

Implemented and champion application monitoring, leading to improvements in performance, stability, and user experience.

Wrote alerting system that gives developers direct access to failure reports.

Kickstarted thriving internal high-level documentation project.

Improved startup time of application servers from 15 minutes with 25% failures to <5 minutes with no failures.

XYZ Textbooks

Web Programmer / Sysadmin — **June 2008 – March 2011**

Cal Poly

Web Developer — **July 2008 – November 2008**

Education

California Polytechnic University, San Luis Obispo, California

B.S of Software Engineering — **September 2007 – May 2012**

Coursera / Johns Hopkins

Computing for Data Analysis – 99% with distinction — **January 2014 – February 2014**

Skills / Keywords

Linux: Red Hat family (CentOS), Arch Linux, Debian family (Ubuntu, Debian)
Monitoring/Alerting: Graphite, StatsD, Alertinator, Diamond, pipe-to-graphite, collectd
Scripting: Bash and utils (sed, awk, grep), Python, Ruby
Backend: Python (Django, Flask, Pyramid), PHP (Symfony, custom), Ruby (Sinatra)
Frontend: HTML, CSS and Less, Javascript (jQuery, MooTools)
Databases: MySQL, PostgreSQL, SQLite, Cassandra
Web Application servers/proxies: Varnish, Apache, HAProxy, Nginx, Tomcat, Cherokee, uWSGI
Version control systems: Git, Mercurial, Subversion
Misc: Amazon Web Services (EC2, S3, CloudFront), Docker, Ansible, Gearman, beanstalkd