@amussey

WORK EXPERIENCE

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Senior Software Developer, Sep 2015-Present

- Established a continuous integration process for a Zend Framework PHP API with Docker. Previously running on Zend Server, we ported the Fitnet API to microservices to enable continuous deployment on Amazon EC2.
- Built a federated, enterprise fitness tracking control panel in isomorphic React.JS. Orange[™] Silicon Valley ran a pilot program with Fitnet to test it as a solution for improving employee health and fitness.

i rackspace

Software Developer II, July 2013-Sep 2015

- Architected the Single Sign-On (SSO) portion of RackConnect 3.0. • As both a control panel and login gateway to other Rackspace properties, we were responsible for integrating both service provider and identity provider functionality into the MyCloud control panel using Security Assertion Markup Language (SAML). Assisted with the migrating from MySQL to Cassandra 2.0 in both server infrastructure and Python site code. •
- A multi-node, multi-datacenter Cassandra deployment created redundancy and improved uptime but exposed the risks of working with bleeding-edge technology. We performed the migration from MySQL to Cassandra with zero downtime.
- Constructed a Logstash logging environment (with a Kibana frontend and ElasticSearch backend), housing 11 TB of data.
- Maintained a continuous integration platform. • Using a toolchain consisting of Chef, Jenkins, Dreadnot, and Github, we enabled developers to see 6-8 successful daily code deploys across multiple properties with zero downtime during releases.
- Managed site infrastructure and scaling challenges. This included keeping 200+ servers functioning and patched, as well as scaling during increased usage.
- Gained experience with OSS workflows, Agile software development techniques, and working effectively on a large team.



Lead Software Engineer, 2011-2012

- Constructed and released a cross-platform, Facebook integrated mobile application for iOS, Android, and the web, as well as the Microsoft Mediaroom set-top box platform.
- Spoke at the Summer 2012 Microsoft Mediaroom Conference in Mountain View, CA about applications for the Companion API.
- Designed and maintained multiple iterations of a REST API.
- Designed a MySQL database structure capable of archiving millions of rows of data.

NetApp<u></u>⊸ - Web Design Intern, Summer 2010



Junior Programmer, Summer 2009

Built internal image sharing system for employee events.



Acquired Confidential Level Security Clearance.

irginia lech – GPA: In major: 3.64, Overall: 3.38 – Computer Science Major, Math Minor, May 2013 Grad

Computer Systems: Coded a UNIX command line interface, a NAT-traversing personal server, and multiple projects demonstrating threading and buffer pools.

Computer Organization: Built a MIPS assembler and simulator.

iPhone Software Engineering: Created an app to download the latest podcasts from an encrypted server and allow users to send messages back and forth from their phones.

GUI Development: Rebuilt Java's SWING and a Microsoft Paint clone using OpenGL.

Data Structures & Advanced Data Structures: Created a graphical, multilevel action game using Java Swing, Designed and constructed a system to organize Geographical coordinate data.

- LANGUAGE EXPERIENCE AND PERSONAL PROJECTS ON THE REVERSE SIDE -

Language Experience

Python: 2 years of experience, including work with frameworks such as Django and Flask. Managed large scale, multi-server deployments at Rackspace.
Java: 4 years through Virginia Tech classwork.
Ruby: Basic experience, additional knowledge through writing Chef Cookbooks, Selenium tests, and Logstash filters.
HTML/CSS: 8 years experience, extensive work with responsive layouts (Bootstrap, Zurb Foundation).
PHP: 6 years experience through personal projects and work.

Javascript: 4+ years experience on web, including work with frameworks such as React.JS, Google Closure, and jQuery. Other experience includes work with Node.JS and 2 years of coding Appcelerator mobile apps.

C: Basics in high school, extended experience in college Visual Basic/C#: Basic experience building an app that interacts with controller Xbox Hardware.

ASP.Net: Basic experience coding Microsoft Mediaroom Apps **Haskell:** Basic experience through classwork

Database Experience

Cassandra: Extensive experience setting up and maintaining a multi-datacenter deployment **MongoDB:** Self taught for personal projects (PodSend) **MySQL:** 4+ years experience configuring, optimizing, and querying through work, freelance development, and personal projects.

PERSONAL PROJECTS

------ Up-to-date OSS Contributions: github.com/amussey bitbucket.org/amussey

AMussey.com

– 2006-Present -

A personal website and blog, featuring tutorials, open-sourced code, industry analysis, photography, and videography. Some notable projects that have been released through here include:

- Get Drunk Not Fat, a \$1 mobile nutrition app for Android and iOS which currently has over 20,000 downloads.
- SK Lightworks, a C# project for controlling the Rock Band Stage Kit using an open source Xbox controller driver.
- Rackspace Cloud Monitoring Dashboard, a open source dashboard for visualizing alerts across Rackspace servers.



——— Constructed 2011, Reconstructed 2013 -

- An online podcatcher with the ability to pause and resume playback between computers and mobile devices.
- Used to become a finalist in the 2011 VT KnowledgeWorks Business Competition.
- Rebuilt in 2013 with a Python Flask and MongoDB API backend as a proof of concept.

-CES Live Blog------

http://CES.AJAMA.org

- 2010-2012

- Wrote and managed a blog, featuring personal coverage of the yearly Consumer Electronics Show in Las Vegas, NV.
- Used to gain extensive experience with the Adobe Suite (Photoshop, Premiere, After Effects, Audition), and achieve a YouTube channel with upwards of 650,000 hits (available at http://youtube.com/amussey).

Awards, Honors, & Recognition _

- Eagle Scout Rank, Boy Scouts of America, 2007 (Member 1997-present)
- Dean's List, Virginia Tech, 2009, 2010
- Computer Science Resource Consortium (CSRC) Scholarship, Virginia Tech, 2010, 2011