Zoë E. Gagnon

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EXPERIENCE

Services Engineer — November 2014 - Current
Tumblr, New York NY

- Contributed to ongoing development of Colossus, a high-performance Scala micro-services framework.
- Created a proxy server designed to run in Amazon EC2 cloud services which reduced S3 transfers and lowered monthly transfer costs by one sixth.
- Developed a solution for real-time updates using the Tumblr firehose, generating over 1 million Redis increments a second.

Key Technologies: Scala, Colossus, Akka, Redis, Amazon EC2, Puppet

Scala Developer — October 2013 - November 2014
Placeable, Denver CO

- Created a system for generic data manipulation and export in a Play 2.2 based service, with distribution to services such as Google, Yelp, and Factual.
- Developed and implemented a migration path from multiple Play instances to a clustered Akka actor system, using Mongo capped collections as an event bus.
- Wrote documentation of API for internal and external use in preparation for enabling third-party applications.

Key Technologies: Scala, Play 2.2, SBT, Akka, MongoDB, Git, Cucumber

Software Engineer — Aug 2011 - Aug 2013
ClickFox, Denver CO

- Developed and maintained industry-leading cross-channel business analysis tools in Java using distributed GreenPlum databases and GridGain compute grids.
- Drove adoption of modern tools and practices, including best practices of Mercurial source control and Maven build tool, and integration of Jenkins build server with Redmine issue tracking.
- Championed usage of agile methodologies; intrudoced a two-week sprint and test driven development.

Key Technologies: Java, Tomcat, Hibernate, JDBC, JSON, BlazeDS, PostgreSQL, GreenPlum, GridGain, Mercurial, Maven, Jenkins CI

Java Engineer   Aug 2010- May 2011
Innoprise Software, Broomfield CO
- Lead developer on a time-card entry system presented in the Eclipse Rich Application Platform, hosted using GlassFish OSGI, to integrate with the Innoprise enterprise resource planning tools.

Key Technologies:: Java, GlassFish, Eclipse, Eclipse RAP

Lead Software Quality Assurance / Software Developer   Mar 2009 - Aug 2011
Regis Learning Solutions, Inc (now The Regis Company), Golden CO
- Developed and implemented test plans for e-learning software. Testing involved creating test scripts on GUI intensive applications, and exploratory testing in identified problem areas.
- Added Section 508 Accessibility compliance to a SCORM framework in ActionScript 3.
- Created tools to quickly visualize XML configuration files using Java 6.

Key Technologies: ActionScript 3, manual testing, Java, XML, SCORM, Section 508 Compliance

TECHNOLOGIES *Professional use:* Scala, Colossus, Play 2.2, Akka, SBT, Redis, MongoDB, Java, ActionScript3, SQL(Postgres), Maven, Mercurial, Jenkins, Linux, Tomcat, OSGI, SCORM, XML, Bash, GreenPlum, GridGain, PL/Java, Scala, Spring, Guice, Apache CFX, JDBC
Open Source and Private use: Ruby/Rails, Common Lisp, Clojure, C, Perl5, LaTeX

EDUCATION   *Bachelor of Science*, Computer Science
Metropolitan State University of Denver, Denver CO, 2010
Minor: Mathematics

GROUPS AND ACTIVITIES
- Charter member; Treasurer: Art of Code computer technology discussion group, with a mission to foster continuing education and networking for students and alumni of the Auraria Higher Education Center schools (Community College of Denver, Metropolitan State University of Denver, University of Colorado at Denver).
- Association of Computing Machinery
- Bike Colorado bicycle ride and Facebook group.
- Interests: Clothing design, French cooking and baking.