

Michael Tolan

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Objective

To utilize computer science and software engineering practices in the creation of scalable, dependable, and maintainable systems, solutions, and teams.

Skills

Languages	Java, Ruby, Go, Python, PHP, SQL, JSP, Javascript, Actionscript, C/C++
Libraries	Dropwizard, Flask, Rails, Spring, JQuery, Hibernate, SOLR, memcached, Log4j
Server Software	Tomcat, Jetty, Apache 2, nginx, MySQL, Oracle
Build Tools	Git/Github Enterprise, CircleCI, Gradle, Maven, Ant, Subversion, Perforce, Docker, TeamCity, Jenkins
Operations	Kubernetes, Terraform, Chef, Datadog, Fabric, Graphite, Nagios, Munin, SumoLogic
Project Tools	JIRA Agile, Pivotal Tracker, Omniplan, Trello, Rally
AWS	EC2, S3, SQS, IAM, DynamoDB, RDS, CloudFormation, ECS

Professional Experience

Brightcove

Principal Software Engineer January 2011 – Present Boston, MA

- Owned a cross-team initiative to migrate to containerized applications including tool selection, implementation, maintenance, training, and support.
- Automated the deployment and management of highly available Kubernetes clusters.
- Designed, developed, deployed and maintained packaging and license serving components for Adobe Flash Access, Widevine, PlayReady, and MPEG-DASH with Common Encryption.
- Designed, developed and deployed Video Cloud support for delivery types including HLS, HDS, Smooth Streaming, and MPEG-DASH.
- Combined physical and cloud resources to fairly manage and execute large multi-tenant workloads of heterogeneous tasks.
- Led a 4 person cross-cutting engineering team including backlog management, code reviews, and mentoring.
- Aggressively worked to support effectively abandoned projects that were still benefitting a significant portion of the engineering team.

Language International

Sr. Software Developer August 2009 – December 2010 Cambridge, MA

- Deployed, maintained, and administered production commerce site based on Drupal.
- Designed and developed Drupal modules to emulate faceted search functionality.
- Planned and implemented technical portions of website internationalization effort, including platform enhancements in the handling of replacement strings.
- Managed team of 4 contracted third party translators.
- Designed, developed and deployed end-to-end user tracking system, enabling tracking of inbound users from SEM and affiliate campaigns to sales fulfilled by internal sales associates.

MyHappyPlanet

Sr. Software Developer

June 2008 - August 2009

Cambridge, MA

- Planned, developed, maintained, and administered social web application using replicated database and load-balanced server infrastructure.
- Deployed and managed production advertising management system using OpenX.
- Provided ongoing maintenance after active development efforts had ended.

Eons

Contract Software Developer

April 2008 – June 2008

Charlestown, MA

- Performed MySQL database load profiling with recommendations for optimizing problematic queries.
- Updated Ruby interface to Solr search index to increase scalability of Site Search system.

CBS Interactive

Software Developer

August 2007 - February 2008

Boston, MA

- Developed and implemented Web Services API for community application features including tagging, recommendations, and ratings distributed across web properties.
- Contributed to ongoing development of internet Rich Video applications, utilizing third party player development kits.
- Reviewed and evaluated technology offerings from various third party companies.

Gather, Inc.

Software Architect

April 2005 - August 2007

Boston, MA

- Contributed extensively to initial system design, and ongoing development of a JSP-based social media website.
- Assisted in planning and implementing necessary changes to scale a system from zero to 300,000 members.
- Wrote internal whitepapers and implementation guides for important infrastructure projects including MySQL Replication and distributed caching using memcached.
- Led development of several site features, including article publication and private messaging.
- Contributed positively to architecture, design, and code reviews for team members.
- Managed source control system used by 10 person development team working concurrently on several parallel projects.
- Assisted operations staff with deployment and troubleshooting production issues.

Education

Brandeis University, Waltham MA.

Master of Software Engineering, May 2011.

Carnegie Mellon University. Pittsburgh, PA.

Bachelor of Science in Computer Science, May 2003.