

Michael Tolan

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Objective

To design and build scalable, dependable, and maintainable systems. To lead and empower efficient, collaborative and productive teams.

Professional Experience

Brightcove

Associate Engineering Manager February 2019 – Present Boston, MA

- Managed engineering teams ranging between 2 and 6 engineers; including hiring, objectives, and compensation.
- Ensured that the team worked well together, and communicated progress effectively across the organization at large.
- Coordinated frequently with product and engineering management to ensure that dates were met and dependencies satisfied across the Product Organization
- Set product direction, and quarterly plans for Brightcove's internal Common Platform
- Participated in cross-team COGS planning and reduction efforts.
- Continued to work in a technical capacity on ongoing platform support, troubleshooting complex issues, and supporting service scaling and migration needs.

Brightcove

Principal Software Engineer: Platform June 2016 – February 2019 Boston, MA

- Deployed and managed a global array of Highly Available Kubernetes clusters using terraform, kops, and AWS.
- Educated users new to containerized application deployment on building and operating production-grade services with documentation, example projects, and dedicated training workshops.
- Developed and deployed internal solutions for managing ingress Security Groups, Service Dashboards, and Health Monitors.
- Deployed, configured, and managed components to allow Brightcove engineers and services to easily interoperate with existing solutions for Metrics visualization, Log aggregation, and User authentication.

Brightcove

Sr. Software Engineer January 2011 – June 2016 Boston, MA

- 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 heterogenous 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.

Skills

Languages	Java, Python, Go, Ruby, PHP, SQL, Javascript
Libraries	Dropwizard, Flask, Rails, Spring, JQuery, Hibernate, SOLR, memcached, Log4j
Server Software	Tomcat, Jetty, Apache 2, nginx, MySQL, Oracle
Build Tools	Git/Github, CircleCI, Gradle, Maven, Subversion, Perforce, Docker, TeamCity, Jenkins
Operations	Kubernetes, Terraform, Docker, 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

Education

Brandeis University, Waltham MA.

Master of Software Engineering, May 2011.

Carnegie Mellon University. Pittsburgh, PA.

Bachelor of Science in Computer Science, May 2003.