



# Shawn Catanzarite

Leadership and Management, Development and Operations

## + CONTACT

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| Address   |  1183 Fitzgerald Ave<br>San Francisco, CA 94124 |   |
| Telephone |  (415) 763-7111                                 |  <a href="http://shawncatz.com">http://shawncatz.com</a>                                       |
| Social    |  @shawncatz                                     |  @shawncatz  |
| Email     |  me@shawncatz.com                               |  <a href="http://linkedin.com/in/shawncatanzarite">http://linkedin.com/in/shawncatanzarite</a> |

## + OVERVIEW

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Empathic — or empathetic, if you prefer — leadership and management in engineering development and technical operations. I have over 22 years of experience with a strong background in most facets of the technology industry, across all sizes and shapes of companies.

I've worked for companies ranging from small startups as a founding technical member to large enterprises of thousands of employees. My technical background spans systems administration and engineering, cloud infrastructure and automation, software development and engineering in several languages, configuration management, continuous integration / delivery / deployment, and everything in between. I've managed teams of a few people, to leading organizations of more than 25.

With extensive background and involvement in the DevOps movement, I help break down silos and build empathy across teams and divisions, building bridges of understanding to mutually agreed resolutions that support the goals of the company.

I am an agent of change within companies, challenging status quo and finding creative and inclusive ways to improve the way people work and work together. Change can be difficult, but by drawing people and teams together, and acting as a force of good, I can help teams and companies realize potential.

I am emotionally intelligent and supportive of diverse people, beliefs, and opinions. I solve problems with diplomacy, respect, and without ego. I don't shy away from difficult situations or tough decisions. Difficulty is the basis of learning, the times we struggle are the times we grow, whether on our own or guided by leaders and mentors. I am a decisive leader, heavily balanced with an experimental approach to the day-to-day.

## + EXPERIENCE

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| Director of Engineering<br>Scripps Networks,<br>ULIVE<br>July 2013 - Present | Direct and manage 20 software and operations engineers, across 5 teams. Technical and thought leadership within the company. Drive change in technical philosophy to move towards more DevOps practices.<br><br>Evangelize and implement continuous delivery pipeline for several projects. Replace existing infrastructure scripts with modern Chef infrastructure, including continuous integration and delivery of infrastructure code (using Chef, Vagrant, Test Kitchen, and Berkshelf).<br><br>Hadoop infrastructure management and implementation using popular distribution.<br><br>Promote DevOps practices and theory across all organizations to improve communications between teams, break down silos, and realize company goals through application of lean kanban, systems thinking, and constraint theory. |
| DevOps Architect<br>INQ Mobile<br>March 2012 – July 2013                     | Leadership and ownership of all technical operations projects for the company. Used Mystro and Volley to manage deployments of several cloud-based applications.<br><br>Applications were Java-based deployed using Tomcat on EC2 servers.<br><br>Servers managed through Mystro, Chef and Marionette Collective.  |
| Consulting<br>Jan 2012 – March 2012  | Puppet and Ruby development for social gaming startup. Automation of MongoDB cluster creation and management. Developed a asynchronous, AMQP-based deployment product (which was the basis of the Volley open source project)  |

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| <p>Architect - DevOps<br/>12gigs<br/>April 2011 – Jan 2012</p>           | <p>Hands-on position leading the engineering team, designing systems and solutions and managing technical operations.</p> <p>Design and implementation of an automated, scalable, server infrastructure for social (Facebook) and mobile (IOS and Android) games. Using Chef and Capistrano, the production environments for each of the games required no more than a few commands to bring new servers online or to move applications across other resources. MySQL and Memcached for data storage and caching.</p> <p>Architecture and development of several server back-ends for social and mobile games using Ruby on Rails, including data modeling and database management / administration.</p>   |
| <p>Ops, SF Team Lead<br/>Yola, Inc<br/>Oct 2009 – April 2011</p>         | <p>Engineering and team leadership driving adoption of cloud and virtualized technologies.</p> <p>Operation of large-scale three-tier web application. Virtual development environments with VirtualBox and Vagrant. Cloud-based integration environments with Rightscale and Amazon EC2. Build and Release engineering and management. Artifact server prototype using Ruby. Internationalization tools and scripts using Ruby. Systems management with Puppet. System monitoring with Nagios and Munin. Web monitoring with Keynote and Pingdom. SEO optimization across multiple applications. Data Warehouse system for financial reporting to Board of Executives, ETL processes capturing and translating data from 4 services and applications, statistical analysis and aggregation of data.</p> |
| <p>Consulting<br/>Jan 2009 – Oct 2009</p>                                | <p>Systems management, engineering for cellular media and short message applications. Social and mobile integrations of systems with Facebook.</p>   |
| <p>Software Engineer<br/>Barracuda Networks<br/>Jun 2008 – Apr 2009</p>  | <p>Firmware and systems development on Spam &amp; Virus Firewall flagship product line. Several notable contributions to many products.</p>  |
| <p>Founder, Software Engr.<br/>ActSolar, Inc<br/>Jul 2007 – Jun 2008</p> | <p>Designed and built end-to-end data solution for capturing monitoring values from instrumented solar networks. Embedded programming for customer-installed equipment.</p>  |
| <p>Software Engineer<br/>Network Appliance<br/>Apr 2005 – Jul 2007</p>   | <p>Technical leadership and architecture of AutoSupport (support automation), AutoSupport Data Warehouse (50TB oracle and flat file data warehouse of customer-installed equipment) and EMS (linux kernel Event Management framework) products and tools.</p>  |
| <p>Consulting<br/>Feb 2005 – Apr 2005</p>                                | <p>Python development of systems management product designed to create an asynchronous, distributed execution platform.</p>  |
| <p>Sr Systems Engineer<br/>eBay, Inc<br/>Jun 2004 – Feb 2005</p>         | <p>Design and develop a system to manage users, groups and permissions on over 200 Unix and Linux servers. Similar to NIS or NIS+. Secure communications between master and slaves with SSL. CFEngine used to distribute updates to slaves, securely and asynchronously.</p> <p>Product saved nearly \$100,000/yr in costs, by removing the need for manual operations.</p>  |
| <p>Systems Engineer<br/>Verizon Wireless<br/>Jan 2001 – Jun 2004</p>     | <p>System to manage cellular switch data for cellular network design and propagation. E-911 Nation-wide reporting system. Drove change to optimize operations and data collection practices to improve overall architecture of primitive data pipelines.</p>   |
| <p>Systems Engineer<br/>FusionStorm<br/>Aug 2000 – Jan 2001</p>          | <p>Data Center and Systems engineering.</p>  |

*Additional experience available, upon request*

## + EDUCATION

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2000 – 2003  
Deanza College

### **C/C++ Systems Development**

Operating Systems and Network programming in C, C++, Java.

1992 – 1994  
S.J. Delta College

### **General Education / Mathematics**

## + TECHNICAL SKILLS

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Languages  
Operating systems

**Ruby, Shell, Java, PHP, Node, Python, C, C++, C#**

**Most Unix / Linux flavors, prefer Debian-based**

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| Cloud  | <b>AWS, Heroku, RightScale, Rackspace, Softlayer, Google Cloud</b> |
| Web    | <b>HTML5, CSS3, JQuery, AngularJS</b>                              |
| Source | <b>Git, Subversion, Perforce, Mercurial, Bazaar</b>                |

#### + SOFT SKILLS

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| Leadership    | Passionate motivator, creative, honourable and trustworthy, optimistic outlook. Servant leader.     |
| Mentorships   | Currently mentoring several engineers, at company and through volunteer work at Hackbright Academy. |
| Communication | Strong and decisive, empathic, understanding and supportive. Well spoken and written.               |
| Management    | Detail oriented, vision focused.  |

#### + OPEN SOURCE

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|------------|---|
| Slinky     | Extensible, event-based, infrastructure as code. Micro services communicate through RabbitMQ to act upon events generated from many sources (AWS, Github, Hipchat, Chef)  |
| Mystro     | Cloud management and automation framework. Define templates of infrastructure and apply across different cloud environments and providers.<br>Pluggable framework for service integration. Supports several clouds and other common services. |
| Media      | Customized media management platform. Manages TV series, Movies, and Music.   |
| Volley     | Asynchronous deployment framework built on AMQP with cloud-based artifact repository. Deploy to hundreds of servers asynchronously, each server downloads artifacts from cloud, rather than having to push to each server individually.       |
| LDM        | LDAP management application. Manage users and groups in LDAP server, supports SSH keys.   |
| Torch      | Torrent indexing application. Indexes several thousand torrents per hour.   |
| Crackin    | Rubygem release management framework  |
| Damsel     | Simplified DSL creation. DSL to define DSLs.  |
| AWSsh      | Simplify SSH access to servers in your AWS account, based on Name tag of compute resources.   |
| Rails libs | Several shared libraries for Rails applications (used by all of my rails-based projects)  |
| Fog        | Ruby's cloud library. Contributed several improvements to AWS and Dyn libraries.  |

#### + REFERENCES

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References can be supplied upon request. View my LinkedIn references: <http://www.linkedin.com/in/shawncatanzarite>