

Brian Stack does things with computers.

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>_ Experience

Yelp Inc. (2013-2015)

Release Engineer

Tech lead of the release engineering team at Yelp in San Francisco. We built and maintained most of the systems and tools that were used by the other developers to do their work. Including managing Git, Jenkins, and much of the sandboxing tools (increasingly based on Docker).

Primary project was a large distributed test runner built on top of Mesos in Python and running on AWS. Relied heavily upon Elasticsearch, Spot Instances, pre-baked images in an auto scaling group that grew and shrank based on usage. In support of this we also built command line tools, dashboards, APIs and javascript single-page webapps. Team member spoke about it at AWS re:Invent 2015. Available on Youtube under the title "(ARC348) Yelp's Distributed System for Concurrent Task Execution."

Managed our large set of AWS and physical instances using Puppet and other tools such as Sensu.

Team was also responsible for defining release processes and requirements in addition to being on weekly rotating on-call to deal with outages and failures. We were at the intersection of the infrastructure and product teams and played a major role in driving consensus between teams.

Contributed to the improvement of our time-series monitoring tool. The open-source graphing portion of this is available on Github at Yelp/firefly.

💬 Speaking

Attacking the Monolith -- CWRU Link State (2015)

Software has a purpose, but it is easy to forget that when you're building it.

Cluster Management with Mesos -- Cleveland Hadoop User Group (2014)

How Mesos works and how Yelp is using it for service deployment and test running.

🏛 Education

Case Western Reserve University, Cleveland, OH (2009-2013)

Bachelor of Science, Computer Science

Organized both the ACM student group and Hacker Society that hosted weekly tech talks.

Researched network monitoring with Mark Allman. Helped publish *A First Look at 1 Gbps Fiber-To-The-Home Traffic* (doi 10.1.1.307.7867)

Awarded the Carolyn J. and John A. Massie '66 Prize for Computer Engineering and Science given to a junior or senior in computer engineering and science with exceptional research and leadership potential.