# DANIEL TRINH

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## EXPERIENCE

**Entelo**                                    *2 Months*

*Software Engineer, Data*

Investigated viability of Spark for ETL and machine learning. Used a bit of RoR, Scala, Spark, MySQL, and Redshift.

**BrightRoll (Yahoo!)**                       *1 Year*

*Software Engineer, Data*

Developed an in house OLAP system for business analytics with Druid, Scala, Puppet, and AWS. Gained operational experience on an existing Hadoop, HBase, and HDFS cluster that spanned three data centers and ingested over 10 Billion events per day.

**BrightRoll**                                *1 Year*

*Software Engineer, Backend*

Built internal APIs to power UIs, and external APIs for third party customers using many different technologies, including Scala, RoR, Elixir, Solr, ElasticSearch, MongoDB, and MySQL, running on AWS.

**RightScale**                                *1.5 Years*

*Software Engineer, API*

Primarily designed, implemented, and maintained a 900,000 SLOC RoR based public HTTP API for exposing Cloud IaaS functionality. Occasionally fixed bugs in a Backbone.js based UI.

**RightScale**                                *1.5 Years*

*Software Engineer, Test Automation*

Developed a Ruby HTTP testing framework to test public RESTful APIs, replacing an existing YAML based framework. Automated browser UI testing using JQuery, Ruby, and Selenium.

## EDUCATION

Bachelor of Science, Computer Engineering
University of California, Santa Barbara (UCSB)

## INTERESTS

Big Data, SOA, Functional Programming, Distributed Systems, DevOps Automation

## SIDE PROJECTS          *github.com/daniel-trinh*

### Golang

- Developed a CLI GUI IRC client for filtering duplicate messages from Twitch chat streams.
- Wrote a CLI app to fetch 200gb+ of files from githubarchive.org and upload them to S3 for ETL analysis.

### Scala

- Wrote Sprawler, an open source Spray and Akka based single server, non-blocking multi-threaded web crawler. Runs on Travis CI. Tested against a local clone of a subset of Wikipedia.
- Used Twitter's API to turn the RSS feed for ocremix.org into a Twitter feed, written with Akka and Dispatch. Currently deployed as a daemon on Heroku, running 24/7, polling every 30 minutes, using Twitter user @newocremixes.
- Maintain Scalariform, a Scala source code auto formatter, adding column alignment, similar to Golang's gofmt. Officially used by Scala IDE, Ensime Server, and countless Scala projects.

### Ruby

- Generated a personal software blog using Octopress, hosted on Github Pages at my website danieltrinh.com.
- Wrote a simple Ruby Tic-Tac-Toe solver using basic mini-max algorithm.

### (Dev) Ops

- Deployed a fully functioning four node Spark and HDFS cluster to DigitalOcean, using a bunch of hand written bash code and ad-hoc csshx sessions.
- Rebuilt the cluster described above as a three node Spark and S3 cluster to AWS. Used Packer, Terraform, Consul, and Confd to automate the image creation, infrastructure deploy, package installation and daemon management of the cluster.

## SIDE COURSES

### Coursera
- Functional Programming Principles in Scala
- Principles of Reactive Programming
- Algorithms: Design and Analysis