DANIEL TRINH

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EDUCATION

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

EXPERIENCE

BrightRoll   *1 Year*

Software Engineer
> Worked on internal APIs to power UIs and external APIs for third party customers using many different technologies, including Play Scala, Ruby on Rails, Elixir, Solr, ElasticSearch, MongoDB, and MySQL.

RightScale   *2 Years*

Software Engineer
> Primarily designed, implemented, and maintained a 900,000 SLOC Ruby on Rails based public HTTP API for exposing Cloud IaaS functionality. Occasionally fixed bugs in a Backbone.js based UI.

RightScale   *1 Year*

Software Developer Engineer in Test
> 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.

RightScale   *3 Months*

SDET Intern
> Wrote Shell and Ruby scripts to run, deploy, email, and report results with EC2 and S3 for an internal Selenium UI testing suite.

RELEVANT COURSES

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

UCSB
- Computer Networks
- Relational Databases
- Computer Security and Privacy

INTERESTS

Reactive Programming, SOA, Functional Programming, Big Data, DevOps Automation.

SIDE PROJECTS   *github.com/daniel-trinh*

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.
- Forked Scalariform, a Scala source code auto formatter, and improved parameter formatting to place parameter names, types, and defaults in separate columns, similar to Golang's gofmt.
- Creating an ever growing set of Scala micro-benchmarks to gain performance intuition about similar sets of code.

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

Elixir / Erlang
- Wrote an experimental Elixir and Erlang source code file watcher and code reloader, to hot code reload changes into a running beam VM.

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

JavaScript, (X)HTML, CSS
- Modified the HTML and SASS for my personal blog from an existing Octopress template.