DANIEL TRINH

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EDUCATION

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

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

EXPERIENCE

RightScale   *Oct 2012– Jan 2014*

Software Engineer
  Primarily designing, implementing, and maintaining a 900,000 SLOC Ruby on Rails based public HTTP API for exposing Cloud IaaS functionality. Occasionally fixing bugs in a Backbone.js based UI, and more bugs in an internal AWS HTTP API.

RightScale   *Aug 2011 – Oct 2012*

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   *Apr 2011 – July 2011*

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.

Riv Data Corp   *Mar 2011 – Apr 2011*

QA Automation Engineer Intern
  Automated cross-browser UI regression testing with Capybara, a high level Selenium library in Ruby.

INTERESTS

Reactive Programming, SOA, Well-documented APIs, Programming Languages, Concurrency, Cooking

SKILLS

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.

Ruby (on Rails)

- 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.

- Well versed in writing ActiveRecord statements for querying relational databases.

JavaScript, (X)HTML, CSS

- Modified the HTML and SASS for my personal blog from an existing Octopress template.

Academic Projects   *UCSB*

Java

- Coded a simple client/server TCP protocol socket program that downloaded page source code information from any arbitrary URL.

C(++)

- Wrote a C++ 1600 SLOC command line Twitter client with custom HTTP headers and XML parsers in conjunction with Twitter's REST API.

Assembly

- Formulated a program to perform floating point multiplication in MIPS assembly.

- Created a 4-bit 16 instruction set CPU in software, then built it on a breadboard.