Pete Cruz

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Summary

Computer scientist with a passion for functional programming. Graduating with a B.S. June 2014.

Related Coursework

Grad. Courses:

Security (CS 290G), Software Systems (CS 290B)

Modern Programming Languages and Their Implementation (CS 263)

Undergrad. Courses:q

Intro. to Cryptography (CS 178), Intro. to Networking (CS 176A)

Fundamentals of Databases (CS 174A), Operating Systems (CS 170)

Programming Languages (CS 162), Translation of Programming Languages (CS 160)

Computer Architecture (CS 154), Data Struct. and Algorithms II (CS 130B)

Data Struct. and Algorithms I (CS 130A)

Experience

LastLine Inc. (Jun. 2013 - Sept. 2013) Integrated the Cuckoo Sandbox with LastLine's back-end and created scanners for malware detection. We created a weighted scoring system for determining the maliciousness of malware analyzed with Cuckoo.

Oakley Labs (Sept. 2012 - Mar. 2013) Delivered an API to interface with the Galaxy web server and implemented tools for use in the browser for bioinformatics analysis.

Selected Projects

RingBase: A real-time platform for an ad-hoc call center. Users can view/answer incoming calls in real-time and transfer calls to other users. There is real-time collaborative editing of notes for each call. Written in Ruby with EventMachine/Goliath and uses WebSockets and AMQP. Deployed and maintained with Chef.

NotifyIO: Rails application for delivering different types of notifications from an organization to its users. This was part of a graduate course on scalable internet services, optimization, and fault tolerance where I helped design the project. Our team used AWS, Nginx and Passenger, Ruby on Rails, Elasticache, MySQL, and researched optimization and scaling techniques to improve upon our architecture.

Geocodr (Facebook HQ, Honorable Mention): Uses the Github API to display programmers near you. Allows you to see what languages you have in common, starred repositories, and some statistics with D3. Backend was handled with Scala and scalaz. Hosted on Heroku.

CrowdCode: Rails application that uses Redis and search engine Solr allows for users to sign in with Github and post snippets of code (copy and paste gists for crowd-source review for optimization and efficiency. Configured with Nginx and Thin on AWS.

Additional Experience & Awards

Hackathons/Conferences: Stripe 2.0 CTF, HackerRank (2013), Facebook (Menlo Park 2013, Honorable Mention), Silicon Valley Scala Symposium

Special Skills

Languages & Markups: Ruby, Scala, Python, C++, JavaScript, HTML, CSS, JSON, SQL

Databases: MySQL, PostgreSQL, Redis

Libraries & Frameworks: Ruby on Rails, jQuery, Argonaut

Tools: Git, SVN, AWS, Heroku, Chef, Vagrant

Practices: Agile, TDD