Raymond Huang

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Work Experience

SDE at Amazon.com, Seattle, WA, US, August 2014 - Present
- Engineer on the Logistics team.

Security Engineer, Internship at Lookout San Francisco, CA, US, September 2013 – January 2014
- Ruby on Rails engineer on security platform tools, improving malware detection workflows.
- Built an automated monitoring service with Zenoss, Graphite, and Redis APIs, with Python.
- Implemented delta calculations, Android market crawlers, and extensive RSpec tests.

JavaScript Engineer, Internship at Inkling, San Francisco, CA, US, January – May 2013
- Contributed to Inkling Habitat, a massive Backbone.js application.
- Built features for e-books publishing like WYSIWYG slide shows, guided and layered tours.
- Wrote extensive Jasmine unit tests and Selenium integration tests.

Software Developer, Internship at XE.com, Newmarket, ON, Canada, May - September 2012
- Implemented Java services to aggregate data, used by the site's data feeds.
- Used JMeter to identify performance bottlenecks and improve accordingly.
- Refactored and redesigned PHP front end for the site.

Software Engineer, Internship at Lockerz, Seattle, WA, US, September 2011 - January 2012
- Developed APIs with Spring MVC for a social ratings and direct messaging service.
- Increased unit tests coverage from 10% to 60% on messaging services.

Associate Developer, Internship at Axsium Group, Toronto, ON, Canada, January - May 2011
- Built a .NET a cross-reference system from requirements to implementation to production.
- Features include concurrent users, Ajax data grids, and controls for CRUD operations.
- Interacted with the client to ensure correct functionalities and recommended improvements.

Technologies

Ruby on Rails, Java (Spring, Play), .NET:
- Backend services, APIs, and internal workflows/tools.
- Large databases involving monitoring, data differentiations, and performance optimizations.

JavaScript (Node.js, Backbone.js, Jasmine, Selenium (webdriverjs)):
- Built many UI features for Inkling Habitat.
- ReddOP, hosted EC2 and DigitalOcean.

Python
- Used NLTK to build Semantix, a Naïve Bayes classifier that classifies websites.
- Automated a service to create queue monitoring via Redis, Graphite, and Zenoss.

Also worked with: Graphite, Zenoss, C++, PHP, Android.

Data stores: MySQL, MongoDB, Redis.

Web: HTML, CSS, Bootstrap, Tomcat, Nginx, DigitalOcean.

Projects

http://raymondhuang.com - Personal website, hosted on DigitalOcean.

ReddOP - http://reddop.raymondhuang.com/
- Allow users to browse Reddit threads by filtering the OP's responses.
- Uses the Reddit API, built with Backbone.js and Rails.

Semantix – source: https://github.com/rhuang/semantix
- Implemented a Naïve Bayes classifier using the NLTK library.
- Classifies websites according to their business type.
- Uses the classifier to extract relevant business data such as hours of operation, location, and menu items for restaurants.

Education

COMP 2613 - Java Application Development
British Columbia Institute of Technology, BC, Canada (June - August 2010)
- Threads, event handling, Swing, inner classes, file i/o, JDBC, MVC, JavaBean.
- Wrote an ATM system using MVC for users to perform CRUD operations.

Bachelor of Software Engineering
University of Waterloo, Waterloo, ON, Canada (2009 - 2014)
- Relevant assignments:
  - Straights - A game of Straights using C++, GTK, using the Observer, MVC pattern.
  - C Compiler - Wrote a compiler for a subset of the C Language (WL).
  - ColdFire Calculator - Built a calculator in ColdFire 68k assembly.
  - Lego Robot - Programmed a Lego robot that navigates through a color-coded maze.
  - Digital Circuits - Playable 1 dimensional pong in VHDL on a circuit board.
- Interesting Courses:
  - Cooperative and Adaptive Algorithms (AI)
  - Computer Networks
  - Concurrent and Parallel Programming
  - Operating Systems
  - Algorithms and Data Structures
  - Logic and Computation
  - International Studies

Diploma of International Baccalaureate
International Baccalaureate Organization (2007 - 2009)