

Ryan Tad Hosford

SUMMARY OF QUALIFICATIONS

- Experienced Lead Developer, Agile, Scrum, Pair Programming, Test Driven Development
- UX Design and Development
- Linux, OS X, Bash/Shell scripting, Ruby, Rails, jQuery, HTML, CSS, HAML, ERB, Assembly, C/C++, Java, Matlab
- Testing frameworks: Spinach, Cucumber, MiniTest, RSpec
- Familiar databases: PostgreSQL, MySQL, MongoDB
- Solr, Heroku, Redis, Sidekiq
- VIM
- <http://ea.rthbound.com>

WORK EXPERIENCE

Freelance Development (Birmingham, AL)

09/2012 – Present

Software Consultant and Developer

- Architected, built, and maintained mountable Rails engine to enable extending any Rails application with support for managing confidential patient health information.
- Architected, built, and maintained application, gems, and rails engine for Centers for Medicare & Medicaid Services (CMS), to reduce the number of hospitalizations and deaths among Medicare recipients in Nevada's 50 nursing home facilities.
- Architected, built, and maintained application, gems, and rails engine for CMS to incentivize and reward healthy behaviors among Medicaid recipients (programs for Children's Heart Center, YMCA, Amerigroup, Lied Clinic, and Health Plan of Nevada).
- On a similar legacy application, implemented features to surface patients' statuses relating to healthy and elevated ranges concerning the patient's measurements, measurement dates, lab results, gender, and health.
- Upgraded legacy Rails application to Ruby 2.0 and latest version of Rails 3.
- Moved legacy application's data from MySQL to PostgreSQL.
- Worked on rewrite of a legacy PHP/MySQL application using Ruby, Rails, and MongoDB.
- Completely redesigned data structure to favor a stronger document structure with more natural benefits for the use case.
- Worked on a new survey administrator application using new document structure, using Rails, Backbone, and MongoDB.
- Wrote Ruby interface for a client's API, eliminating application's dependency on JRuby and Java Archive files.
- Published open source solutions when appropriate.
- Developed automated batch import process using a combination of Control M, Java, shell scripts, and Ruby/Rails.

[HealthyNV](#) (Medicaid)

Architect & Lead Developer

- jQuery, Ruby 2.0, Rails 3.2
- Agile development
- Runs on JRuby or MRI with PostgreSQL
- Provides administrative and organization specific privileges
- Supports management of basic records
- Randomly assigns newly created patients to one of several experimental groups
- Creates reward transactions in an external system when users create records
- Provides csv export features

Isotope 11 Consulting (Birmingham, AL)

09/2011 – 09/2012

Ruby, Ruby on Rails Developer

- Developed web applications using Ruby, Rails, jQuery, MySQL, PostgreSQL.
- Rapidly developed as an asset to begin consulting on clients' projects (one month).
- Maintained average ~95% external billing rate while reaching more than 300 cumulative hours of overtime for the year.
- Built and tested software for various internal and external projects.

Mr. Arlo

04/2012 – 09/2012

Architect & Lead Developer

- jQuery, Ruby 1.9.2, Rails 3.1, Heroku, Redis, Sidekiq
- Paired with numerous designers and developers in an Agile environment
- Established relational structure for all persisted data models.
- Designed user experience for and implemented an intuitive, unified buyflow to support the sale of products through several APIs at once.
- Interacted with various third parties' APIs: Expedia Affiliate Network, OpenTable, Viator, 4 Square, Yelp, Instagram, Teleportd, CityGrid, Facebook, Google Maps.
- Mitigated project delays by retasking resources, performing research, and communicating solutions.
- Implemented lookahead search to ensure a valid destination object is sent to each product search module.
- Developed fulltext search algorithms for products stored in local database.
- Implemented interstitial to allow user interaction while products are fetched.
- Defined process for updating user information as data is streamed asynchronously from Facebook's OpenGraph API.
- Developed a suggestive search feature that improves results for a given user as knowledge is gained via user history or public APIs.

- Contributed to opensource projects in order to support application requirements.

Auto Parts Tomorrow

10/2011 – 04/2012

jQuery, Ruby 1.8, Rails 2.3

- Paired with developers and designers to develop new features.
- Provided geolocation feature, allowing client to offer a more aggressive shipping price earlier in the customer buyflow with low risk.
- Created a new shipping system, minimizing losses by requiring products with high shipping costs to be shipped separately from products qualifying for discount programs.
- Improved search accuracy and performance by implementing Sunspot and developing algorithms to meet client's needs.

Crowder Gulf, Operation Deep Clean (Gulf Shores, AL)

02/2011 – 04/2011

Field Technician (BP Oil Spill)

University of Alabama at Birmingham, B.S.E.E. Program

08/2008 – 12/2009

Ruby on Rails, Matlab

- Using Ruby/Rails, developed mailers for a balloting application – an IEEE project.
- Wrote Matlab script that analyzes an audio clip, identifies corruption in the frequency domain, and applies a notch filter at the correct frequency and bandwidth to restore the signal.
- Wrote Matlab script to sample an image and determine whether the image contains some predefined pattern.

EDUCATION

Bachelor of Science in Electrical Engineering (B.S.E.E.), 2009

- University of Alabama at Birmingham
- Studied electromagnetics, electrical machinery, analog & digital circuit analysis & design, software, digital signals processing, [radio signals](#)
- Senior Project: Built [lab equipment](#) to demonstrate Nyquist's sampling theorem to future signals & systems students
- GPA 3.0/4.0

OPEN SOURCE CONTRIBUTIONS

- Created [Rubeuler](#), a Ruby gem that evaluates solutions to Project Euler problems and returns useful diagnostics.
- Engaged in development of [Suitcase](#), an API wrapper for the Expedia Affiliate Network.
- Created [DataScienceTheater3000](#), an API wrapper for the Data Science Toolkit.
- Created [enie meenie](#), a Ruby gem to handle random assignment of a member to one of a few experimental groups.

- Created [PayDirt](#), an awesome service object pattern that facilitates building SOLID libraries quickly.
- Created [Konamio](#), because I wanted to see how I'd solve the problem of requiring entry of the konami code in a Ruby console.
- Created [ProtectedRecord](#), a gem to handle filtering changes, creating change requests on behalf of the current user, and creating change audits.
- Created [super_deduper](#) to tell me when the database might already contain something a client wanted to add.
- Created [DependencyTracker](#), a simple app to help with quickly disclosing all open source dependencies' licenses to lawyers.