

Ryan T. Hosford
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Education

Bachelor of Science in Electrical Engineering (B.S.E.E.), Fall 2004 – Winter 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

Summary of Qualifications

- Experienced lead developer and team member
- UX Design and Development
- Linux, OS X, Bash, Ruby, Rails, jQuery, HTML, CSS, HAML, ERB, Assembly, C/C++, Java, Matlab
- Testing frameworks: Spinach, Cucumber, MiniTest, RSpec
- Familiar databases: PostgreSQL, MySQL, MongoDB
- Solr, Sunspot, Heroku, Redis, Sidekiq
- VIM
- HIPAA Certified

Work Experience

***Freelance Development** (Birmingham, AL)*

Software Consultant and Developer, 09/2012 – Present

- Built applications, wrote gems, wrote tests, performed root cause analyses, shipped features
- Wrote Ruby interface for client's API with complete documentation, supporting multiple API versions using composition and inheritance
- Published open source solutions when appropriate

***Isotope 11** (Birmingham, AL)*

Ruby, Ruby on Rails developer, 09/2011 – 09/2012

- 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 hours overtime
- Built and tested software for various internal and external projects

***The City Grill** (Gulf Shores, AL)*

Bartender, 05/2011 – 08/2011

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

Field Technician (BP Oil spill), 02/2011 – 04/2011

***The Original Oyster House** (Gulf Shores, AL)*

Bartender, 04/2010 – 08/2010

Open Source contributions

- [RubyGems.org](#) profile
- [StackOverflow](#) profile
- [Github](#) profile
- Engaged in development of Suitcase, an API wrapper for the Expedia Affiliate Network
- Contributed to the Pivotal Labs' [License Audit](#)
- Created DependencyTracker, a simple app to help with quickly disclosing all your open source dependencies' licenses to lawyers

Software Engineering Projects

WellPortal, lead developer

Ruby 1.9/2.0, Rails 3.2, 02/2013 – Present

- Migrated to Ruby 2.0, latest Rails 3; migrated from MySQL to PostgreSQL

- Introduced features to illuminate patients who may be at risk for acquiring certain medical conditions
- Implemented features to surface patients' statuses relating to healthy and elevated ranges concerning measurements, measurement dates, lab results, gender, and health
- Root cause analysis on long standing and recent issues

HealthyNV (Medicaid), architect & sole developer

jQuery, Ruby 2.0, Rails 3.2, 11/2012 – Present

- Runs on JRuby or MRI with PostgreSQL
- Provides administrative and organization specific privileges
- Supports management of basic records and facilitates several organizations' research studies
- Randomly assigns newly created patients to one of several experimental groups using [eenie meenie](#)
- Creates reward transactions in an external system when users create records
- Provides a filterable CSV export feature

HealthyNV (Medicare), architect & sole developer

jQuery, Ruby 2.0, Rails 3.2, 11/2012 – Present

- Runs on JRuby or MRI with PostgreSQL
- Provides administrative and organization specific privileges
- Supports management of records like: demographics, prescriptions, serious conditions, specialist referrals, orders for life sustaining treatment, hospitalizations, transfers, health risk assessments.
- Supports document upload and download, both as record attachments and attached directly to patients.
- Main interface reveals which patients are most at risk and which patients have the most urgent symptoms.
- Provides a filterable CSV export feature (for various tables)

Mr. Arlo, architect & lead developer

jQuery, Ruby 1.9.2, Rails 3.1, Heroku, Redis, Sidekiq, 04/2012 – 09/2012

- Defined process for updating user information as data is streamed asynchronously from Facebook's OpenGraph API
- Established relational structure for all persisted data models
- Developed a suggestive search feature that improves results for a given user as knowledge is gained via user history or public APIs
- Designed user experience for and implemented an intuitive, unified buy-flow to support the sale of products through several APIs at once
- Interacted with various APIs: Expedia Affiliate Network, OpenTable, Viator, 4 Square, Yelp, Instagram, Teleportd, and others
- Mitigated project delays by retasking resources, performing research, and communicating solutions
- Implemented look-ahead search to ensure a valid destination object is sent to each product search module
- Developed full-text search algorithms for products stored in local database
- Implemented interstitial to allow user interaction while products are fetched
- Contributed to open-source projects in order to support application requirements

Auto Parts Tomorrow, Ruby, Ruby / Rails developer

jQuery, Ruby 1.8, Rails 2.3, 10/2011 – 04/2012

- Provided geo-location feature, allowing client to offer a more aggressive shipping price earlier in the customer buy-flow with low risk
- Created a new shipping system, minimizing losses by requiring products with high shipping costs 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

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

Ruby on Rails, Matlab, 08/2008 – 12/2009

- 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