

# Emily Claire Price

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## ABSTRACT

I am a full stack web application developer, comfortable with all layers of design and development from database and application architecture to visual presentation and layout. My areas of interest include application deployment; data analysis and visualization; and schemaless storage with NoSQL databases. I also have a passion for functional, elegant user interfaces.

## AS SEEN ON...

**GitHub** - <http://github.com/duien>

**Stack Overflow** - <http://stackoverflow.com/users/105938/emily>

## SKILLS

**Languages** – Ruby, JavaScript, Perl, Java, PHP, LISP, C, C++

**Deployment** – Heroku, Apache, Nginx, Unicorn, Phusion Passenger, Chef

**Tools and Libraries** – Rails, Sinatra, Capistrano, MongoMapper, RSpec, SunSpot, JQuery, Test::Unit, Cucumber, WebRat, Capybara, Rack::Test, and many others

**Databases** – MySQL, PostgreSQL, MongoDB, Redis, CouchDB, SQLite, Solr, Sphinx

**Markup** – Haml, Sass, HTML, CSS, LaTeX

**General** – Database schema design, MVC architecture, user interface design, Linux and OS X environments, Scrum and Agile processes

## EMPLOYMENT

### Software Developer – Highgroove Studios

12/2010 to 6/2011

Worked directly with a variety of clients to plan and develop new applications and enhancements to existing applications through rapid, iterative development in a Results-Only Work Environment

#### Client Relations

Wrote and estimated user stories based on wireframes, planning documents, and client meetings

Worked with clients to determine features necessary for launch, both in initial planning and in later revisions

Worked with outside designers on user experience and application workflow for multiple applications

#### Development

Maintained numerous APIs for a large firmographic data set for **Demandbase** using MySQL with master-slave replication, Sphinx with complex predictive search, and Redis for data aggregation  
Maintained and enhanced admin interface for **Demandbase**, including UI and UX for new features based on existing conventions

Launched **SocialLatitude**, a social event calendar with interfaces for users, venues hosting events, and administrators from wireframes in four weeks

Initial development of Sencha Touch mobile interface for **SparkQuest**, a social adventure-based deals application

Independently designed and developed **ROWE App** (see below) to track progress on client work across multiple projects in Results-Only Work Environment

### Software Developer – Primedia, Inc.

4/2010 to 12/2010

Developed high-traffic websites and services using Rails and Sinatra as part of a large, cross-functional team. Practiced pair programming and followed an Agile methodology.

#### Web Development

Responsible for new features and maintenance on several high-traffic Rails real estate listing sites

Ported **RentList**, a legacy PHP-based site, to Rails

Part of the small group that did initial development for the admin interface for RentList data

#### Back-end Services

Worked on **Rack DCMS** and **SEO Fusion**, a pair of services that allow dynamic changes to page content and meta-information and store revisions in CouchDB

Released open source **Ops Routes** library (see below)

Helped create **Zutron**, a JavaScript-intensive Rails service that integrates personalization features into existing sites

Maintained other existing services including **Leads Service**; **Service Moving Form**; and **Service Onboard**, a RESTful geodata service

#### Agile Process

Participated in transition of existing teams to formal Scrum process

Development team drove collaboration between product management, quality assurance, operations, and business intelligence teams

### Software Developer – Xiocom Wireless

6/2008 to 3/2010

Started as a developer on an existing team, but transitioned quickly to independently designing and developing new projects including **Metrics**, a suite of tools for data collection and manipulation; and **Approval**, a workflow management application.

#### Metrics

Collects arbitrary data and associated metadata in a standardized, schemaless format from a wide variety of sources

Supports ad-hoc querying via a URI-based DSL with CSV, JSON, and graphical output formats

Allows for correlation of data across different systems

Modular architecture allows vertical and horizontal scaling as needed

All components written in Ruby, using Sinatra for web-accessible components, Daemonize for background services, and MongoDB for storage

#### Approval

Developed internal Rails application for management of various approval workflows in order to provide visibility into market acquisition and network device purchase processes

Iteratively developed in conjunction with sales and management teams to ensure business needs were met

#### Other Responsibilities

Maintained internal tools including Drupal, RequestTracker, TWiki, and a custom PHP LDAP browser

Performed data extraction and analysis to create reports as needed for internal departments

Worked with engineers in client companies on configuration and integration of systems

## DESIGN PORTFOLIO

### RubyConfirmate

<http://rubyconfirmate.herokuapp.com>

Desktop and mobile site for selecting conference sessions to attend, and seeing which sessions your friends are attending. It was used by over 250 of the attendees at its debut at RubyConf 2010  
Development, user interface, and markup

### ROWE App

<http://rowe.herokuapp.com>

Application to track progress on client work, including overall and per-project metrics  
Development, user interface, and markup

### Personal Website

<http://duien.com>

Sinatra application to aggregate data from many social networks  
Development, user interface, and markup

### In-Progress Projects

#### Mongo Ticketing

<http://mongo-ticketing.herokuapp.com>

Ticketing application using modular architecture and a MongoDB back-end  
Development, user interface, and markup

#### LunchHaus

<http://lunchhaus.herokuapp.com>

Application to track lunch orders among officemates  
User interface and markup

## COMMUNITY INVOLVEMENT

### Open-source Contributions

#### Capistrano

Contributed code to remove side effects between tests and to allow different transfer methods when deploying via copy  
Created extension to allow easy deployment of multiple related applications

#### Ops Routes

[http://github.com/primedia/ops\\_routes](http://github.com/primedia/ops_routes)

A library that can be used as a Rails plugin or Rack middleware  
Loosely based on existing middleware-only design  
Adds pages to any Rack-compatible application to help with monitoring and environment inspection

## EDUCATION

### Virginia Polytechnic Institute and State University

received 2006

BS in Agricultural Education, Extension option

### Thomas Jefferson High School for Science and Technology

received 2001

Related courses taken include **Computer Science** and **AP Computer Science** in C++; **Artificial Intelligence** in LISP, covering topics including genetic algorithms and the ELIZA program; and **Computer Architecture** in Perl, Java, C, Assembly, and more