Emily Claire Price

4265 Durham Circle
Stone Mountain, GA 30083

http://duien.com

(540) 449-5476
price.emily@gmail.com

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.

CURRENT EMPLOYMENT

Software Developer – Primedia, Inc.   since 4/2010

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

PREVIOUS EMPLOYMENT

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
Allows for correlation of data across different systems
Easily integrates with other applications thorough CSV and JSON export
Generates charts using Google Charts API
Modular architecture allows vertical and horizontal scaling as needed
All components written in Ruby, using Sinatra for web-accessible components and Daemonize for background services
Uses MongoDB backend to provide efficient storage and querying of schemaless data

Approval
Allows easy management of various approval workflows
Provides visibility into market acquisition and network device purchase processes
Iteratively developed in conjunction with sales and management teams to ensure business needs were met
Written in Ruby on Rails with a SQLite backend

Other Responsibilities
Maintenance of internal web sites including Drupal, RequestTracker, TWiki, and a custom PHP LDAP browser
Extracting and analyzing data to create reports as needed for internal departments
Working with engineers in client companies on configuration and integration of systems

DESIGN PORTFOLIO

Personal Website   http://duien.com

Sinatra application to aggregate data from many social networks
Sole developer

In-Progress Projects

Mongo Ticketing   http://mongo-ticketing.heroku.com
Ticketing application using modular architecture and a MongoDB back-end
Sole developer

LunchHaus   http://lunchhaus.heroku.com
Application to track lunch orders among officemates
Design 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
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

As Seen On...

GitHub - http://github.com/duien
Stack Overflow - http://stackoverflow.com/users/105938/emily

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

SKILLS

Languages – Ruby, JavaScript, Perl, Java, PHP, LISP, C, C++
Deployment – Apache, Nginx, Unicorn, Phusion Passenger, and Heroku
Tools and Libraries – Rails, Sinatra, Capistrano, MongoMapper, RSpec, SunSpot, JQuery, Test::Unit, Cucumber, WebRat, Capybara, Rack::Test, and many others
Databases – MySQL, MongoDB, CouchDB, SQLite, Endeca, Solr
Markup – Haml, Sass, HTML, CSS, LaTeX
General – Database schema design, MVC architecture, user interface design, Linux and OS X environments, Scrum and Agile processes