

# ROB MADOLE

SOFTWARE ENGINEER

robmadole@gmail.com  
@robmadole on twitter  
417-385-3137

robmadole.com  
github.com/robmadole  
linkedin.com/in/robmadole

## SUMMARY OF QUALIFICATIONS

### Information Architecture

- » Web and mobile platforms
- » Creating and iterating with wire frame prototypes
- » Designing Photoshop mock-ups

### Agile software development

- » Participating on small scrum teams
- » Writing user stories
- » Working with clients to develop product backlogs
- » Project management experience

### Test-driven / Behavior-driven development

- » Setting up and maintaining continuous integration environments
- » Authoring and maintaining documentation
- » GUI testing with Selenium
- » Virtual machine based cross-browser testing
- » Test-driven and behavior-driven development

### Web development

- » Standards-based design with HTML5 and CSS3
- » Complex user interfaces in Javascript
- » Client consuming OAuth integration
- » Integrating Facebook OpenGraph

### Systems administration

- » Data center automation
- » Amazon Web Services
- » Setup and maintenance of cloud computing installations
- » Performance tuning
- » Configuration and hardening of relational and key-value databases
- » General TCP/IP based daemon installation and setup
- » General networking installation and configuration

### Open Source

- » Author of several small projects (<http://github.com/robmadole>)

### Operating systems

- » Linux
- » BSD
- » OS X

### Languages

- » Python
- » Javascript
- » Ruby
- » Objective-C
- » PHP
- » Java

### Frameworks / Tools

- » Django
- » Flask
- » Rails
- » Backbone.js
- » jQuery
- » Ansible
- » Saltstack
- » Apple iOS

### Markup

- » HTML
- » CSS
- » XML
- » SQL
- » Markdown
- » reStructuredText

### Protocols

- » HTTP
- » REST
- » TLS/SSL
- » SMTP

# WORK EXPERIENCE

Contract work

Mid-Western

JAM Web

Accenture

Localbase

Arc90

Kyruus

SFX

2003

2004

2005

2006

2007

2008

2009

2010

2011

2012

2013

2014

## SFX Entertainment, Inc

*Lead Engineer*

Joined a small team focused on rebuilding the Beatport.com music store. Helped to shift the organization away from a PHP-based stack to Python. Introduced continuous delivery, AWS cloud-based infrastructure, and peer-review processes. Unified Vagrant and AWS EC2 by using Packer to build a custom base image. Reduced infrastructure complexity by implementing an Immutable Server pattern for deployment. Used Node.js and Grunt.js to build tooling for CoffeeScript and SASS development. Utilized Docker in local development to provide services for Redis, PostgreSQL, and Sentry.

## Kyruus, Inc

*Consultant*

Introduced into the organization to help deliver a project that was behind schedule and falling short of its requirements. Used Vagrant to simplify local development of a Django-based system. Reduced complexity by removing unnecessary abstractions, unused code, and combining into one Git repository. After the first project was deployed and delivered lead a team that built a RESTful API using Ruby and Elasticsearch. Used RSpec and Cucumber as part of a testing strategy to ensure quality.

## Arc90, Inc

*Consultant*

Lead developer for two client services projects including an effort to overhaul the web experience for Thomson Reuters. Helped guide small Agile teams of talented engineers with tight deadlines and challenging client engagements. Played a key role in architectural design and strategy for a complex service-oriented design. Utilized Amazon Web Services and helped to design release management processes. Worked to implement a RESTful API which powers an iOS app that early after release was featured by Apple in the App Store.

## Localbase, Inc

*Interaction Designer*

Member on small Agile development team developing social software. Deployed Django-based systems on Amazon EC2 and later KVM-based cloud infrastructure utilizing data center automation tools. Developed capabilities including row-level database permissions, OpenGraph integration, Key-value database integration and an MVC Javascript framework. Functioned as quality assurance engineer near the end of the release cycle. Setup Python-based BDD tools which became our primary way of user acceptance testing.

## Accenture National Security Services

*Consultant*

Interaction designer for web-based data visualization tool for the Department of Defense. Involved in designing Software as a service (SaaS) and Service-oriented Architecture (SOA) systems. Lead development on primarily Javascript-based platform. Taught object-oriented Javascript development to engineers new to web development. Java-based testing with Selenium RC and Selenium Grid.

## JAM Web Designs

*Software Engineer*

Stabilized PHP-based system running on FreeBSD. Added testing and transactions to the billing engine. Managed collocated servers handling around 20,000 unique visitor per month. Upgraded MySQL to replicated master/slave infrastructure to relieve performance problems. Created a development environment to isolate changes against customer deployments. Introduced and trained the team on version control using Subversion. Migrated development to semantic standards-based HTML and modern css techniques.

## Mid-Western Companies, Inc.

*Media Manager*

Designed print and marketing material. Created instruction manuals using photography, 3D modeling, and 3D animation. Editor and developer for marketing web properties.

## COMMUNITY

- » Volunteer time maintaining annual photography competition website for PhotoSpiva (photospiva.org)
- » Open source projects I have authored or participate in available on <http://github.com/robmadole>

## EDUCATION

### Missouri Southern State University

*1996–2000*

- » Course of study: Visual Communication, Physics and Mathematics

## REFERENCES

Available upon request. Please email [robmadole@gmail.com](mailto:robmadole@gmail.com), direct message twitter user [@robmadole](https://twitter.com/robmadole), or call **1-417-385-3137**.