Michael Leone
Principal / Software Architect
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AREAS OF EXPERTISE

Web Software Development: Developed web applications using Ruby on Rails, Django, Python, Javascript, Perl and Java. Delivered many successful products for both startup and enterprise clients. Familiar with wide range of tools for development, testing, continuous integration, debugging, and profiling. Experienced integrating web applications against many APIs, including web services, network devices, Linux console applications, and hardware drivers.

Infrastructure and Release Management: Experienced with designing and configuring wide variety of Linux environments (rack servers, EC2, specialized hardware), installing and maintaining web applications, external service integration, and performing monitoring and reporting. Experienced in managing complex release and code branching workflows in git and subversion.

Database Management: Experienced with many database management systems, including PostgreSQL, PostGIS, MySQL, Oracle, SQL Server, and SQLite. Optimized the database layer of many dynamic, production web applications.

Mobile Application Development: Designed and developed mobile phone applications for various platforms using Ruby, Scripting Layer for Android, Javascript, and the Palm Mojo SDK. Developed an open-source mobile web application using jQuery Mobile and Yahoo! Query Language (YQL).

Technical Writing: Experienced in writing internal engineering documentation, user documentation, and project plans. Conducted training and instruction for domain-specific writing.

PROFESSIONAL EXPERIENCE

Panoptic Development: *Founder and Principal, Engineering*   Providence, RI   2009 to present

Serving as principal, software architect and application developer for Panoptic Development, a software engineering consulting firm. Worked as developer, release manager, and technical lead for both internal and contract projects. Wrote proposals, project plans, and technical documentation for a variety of large, successful software projects.

Served as architect and technical lead of several projects, including a Django application for clinical research and analysis for a large healthcare organization (Lifespan). Developed an information system to manage all faculty position and appointment data for major university (Brown) using Ruby on Rails, and served as chief software architect for two standards sites for the construction industry (MasterFormat and GreenFormat). Developed a large-scale transportation management platform (RIDE Connection) using Ruby on Rails and PostGIS, and a consumer site for sharing high-resolution, 360-degree images (Gigapan).

Independent Consultant: *Software Architect*   Providence, RI   2009

Served as technical lead on a software/system integration project for Applied Science Associates, Inc. Designed a custom Linux environment; integrated ocean observation management systems written in Perl and Java with a spatially-enabled PostgreSQL database.

Served as technical lead on a software integration project for defense and law enforcement. Developed a mobile video surveillance system using Ruby on Rails, remote network cameras, and a custom Linux environment.

Public Display: *Senior Software Engineer / Technical Lead*   Providence, RI   2006 to 2009

Developed various user interface and program logic components for FuseCal, a consumer web application for parsing and managing calendar feeds. FuseCal development work included writing Ruby wrappers around third-party libraries written in C, Perl, and Python; and integrating with the Google Calendar, Facebook, and OpenCalais APIs. Led release management, configuration management, and acceptance testing efforts for FuseCal.

Developed a student registration, tracking, and billing system (for

Grantham University) using Ruby on Rails and ASP.NET. Developed a psychology and music profiling application (for SignalPatterns) that integrated with Facebook and other social networks.

OPEN SOURCE PROJECTS

mobile music (http://github.com/mleone/mobile_music): Created a mobile web application that finds local concerts. It uses HTML5, jQuery Mobile, Yahoo! Query Language, and the JamBase Concert API.

broadcast (http://github.com/mleone/broadcast): Designed and developed an embedded Android application for remote device management. The project is the first of its kind developed in ruby and received coverage on many popular technical blogs.

ruby-gcal (http://github.com/mleone/ruby-gcal): Developed a Ruby library implementing the Google Calendar API. ruby-gcal is also the first Ruby library to implement Google's batch processing API.

EDUCATION

University of Rhode Island   Kingston, RI

Bachelor of Science in Computer Science, Bachelor of Science in Applied Mathematics, Minor in Writing.

Computer Science and Applied Math coursework included object-oriented programming, applied software engineering, database management systems, combinatorics, advanced algorithms, calculus, and advanced mathematics. Writing coursework included business and technical writing, persuasive and public writing, and writing consultancy.