

Ryan Morlok

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Professional Skills

- Python Programming*
Webapp2, Google Appengine, Scripting
 - Javascript Development*
object-oriented programming, jQuery, KnockoutJS, Backbone
 - Java Programming
*JRE 1.4, 1.5, 1.6, * 1.7, * Spring MVC**
 - .NET Programming
*C#, VB.NET, .NET up to 4.0, * ASP.NET MVC*
 - General Web Development*
HTML, JavaScript, CSS, XML, AJAX, JSON, jQuery
 - RESTful service design*
Designed and built in Java, C#, Python
 - Database Programming
SQL, ADO.NET, * JDBC, * SQL Server, * Oracle, * MySQL, PostgreSQL*
 - Matlab Programing
Computer vision, data analysis
 - Software Testing*
JUnit, QUnit, jUnit, NUnit, Selenium Webdriver
 - Strong Communication Skills*
Teaching experience, published author, customer support/training, product presentations
 - Enterprise Application Development
*Tomcat, * Spring, * UML, * Hibernate, * NHibernate, Domain Modeling**
- * indicates active professional experience in last two years*

Selected Professional Experience

Thomson Reuters

2009-Present

Lead Software Engineer

Technology lead on the *Doc & Form Builder* product. Lead the development and launch of the *My Business Intelligence* product. Lead developer on the *Business Law Advisor* product. Worked in both ASP.NET MVC (C#) and Java Spring. Created RESTful web services using the Java Spring framework and dynamic JavaScript widgets that consumed the web services. Lead the launch of a single page web app written in Backbone.js from requirements to launch.

Docalytics

2012-Present

Co-Founder, CTO

Cofounder, developer on the Docalytics platform which won first place in the third Twin Cities Startup Weekend and third place in the 2012 Minnesota Cup High Tech division. Participating in the gener8tor startup incubator in summer 2013. Docalytics is a SaaS platform for bringing analytics and lead generation into PDF-based content marketing materials. The platform is primarily built in Python on Google App Engine with support from Amazon AWS web services.

EmergingSoft Corporation

2007-2009

Senior Software Engineer

Lead developer on the redesign/implementation of the web interface for an existing meeting room scheduler application in ASP.NET (C#). The application involved both a web interface and SOAP-based web services, working from a back-end SQL database. Directed second developer working on portions of the project. Acted as interim primary developer on a second existing VB.NET Windows Forms application. This claims management application was designed with a two-tier architecture, backed by an Oracle database. Created documentation and training materials for both applications. Provided technical guidance for RFP responses and assisted in the pre-sales process. Led onsite installations and training at customer sites. Travelled internationally to work with customers and partners. Developed internal applications to help sales and support team work more efficiently with customers.

Kim Laboratories, Inc.
Contract Software Engineer

2006-2007

Designed and developed control and analysis software for a new pathogen detection product. Software was written in .NET using C#. Assessed customer needs for software functionality. Created graphical user interface mock-ups for management approval. Developed user interface using .NET Windows Forms. Scope of the project included the full range of software development activities, from signal analysis algorithm development to GUI design and creation. Work was done as a contractor.

University of Illinois at Urbana-Champaign
Head Graduate Teaching Assistant
CS 105, Computer Science for Non-Technical Majors

2004-2006

Managed 14 other graduate teaching assistants in course administrative tasks. Taught discussion sections of 30-40 students in a lecture-style format on topics such as SQL, Microsoft Excel, and Microsoft Visual Basic for Applications. Wrote the VBA textbook currently used by the course. Received university outstanding teaching award all 4 semesters.

Other Technology Interests

- Ruby
- F#/OCAML
- Cocoa/Objective-C/iOS/Mac Development
- Scala
- Lisp/Scheme
- Groovy

Education

University of Illinois at Urbana-Champaign
Master of Science, August 2006
Computer Science
GPA 3.78/4.00

University of Minnesota, Twin Cities
Bachelor of Science, May 2004
Computer Science, Management Minor
GPA 3.73/4.00 (Magna Cum Laude)

Leadership

Technical Lead, Thomson Reuters

Technical lead for three different projects at Thomson Reuters including two new product launches. Worked with the product owner to establish requirements. Produced software design across multiple application layers. Broke down development tasks for other developers. Provided problem solving support to other developers when they encountered issues.

Lead Developer for New Revision of Product, EmergingSoft Corporation

Defined how the product would look and interact in new revision. Created mockup screens to present to management to receive design approval.

Head Graduate Teaching Assistant, Intro to Computer Science for Non-Technical Majors

One of two head graduate teaching assistants for an 800+ student class. Managed administrative tasks for the course, including directing 13 other graduate teaching assistants in creating homework assignments and exams. Responsible for coordinating the simultaneous administration of exams at multiple sites and grading of the exams. Lead author for a textbook used in the course.

Publications

Morlok, R., Parr, D., Woodbury, M. *VBA for Excel*. Stipes Publishing, Champaign. ISBN 1-58874-587-2.

Morlok, R., Gini, M. *Dispersing robots in an unknown environment*. DARS 2004. Toulouse, France. 2004.

Bodor R., Morlok R., Papanikolopoulos N., *Dual-Camera System for Multi-Level Activity Recognition*, Proc. of the IEEE/RJS International Conference on Intelligent Robots and Systems, 2004.

For a full description of my work visit my LinkedIn profile: <http://www.linkedin.com/in/ryanmorlok>