

Ryan Morlok

Professional Skills

- NET Programming*
C#, VB.NET .NET 1.1, 2.0, 3.0, 3.5
- Graphical User Interfaces
*Java AWT/Swing, .NET Windows Forms**
- Web Development*
HTML, JavaScript, CSS, XML, AJAX, jQuery
- Web Application Development
ASP, ASP.NET JSP, PHP, Java Servlets*
- Java Programming
JRE 1.4, 1.5
- Test-Driven Development
*jUnit, NUnit**
- Database Programming
SQL, ADO.NET,* JDBC, SQL Server,* Oracle,* MySQL, PostgreSQL*
- C/C++ Programming
Windows Visual C++, Linux GCC
- Matlab Programing
Computer vision, data analysis
- Strong Communication Skills*
Teaching experience, published author, customer support/training, product presentations
- Enterprise Application Development
Tomcat, Struts, JSP, UML, Hibernate, Domain Modeling**
** indicates active professional experience in last 2 years*

Professional Experience

EmergingSoft Corporation Senior Software Engineer

2007-Present

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

2004-2006

CS 105, Computer Science for Non-Technical Majors

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.

Professional Experience (*cont'd*)

University of Minnesota, Twin Cities

2003-2004

Undergraduate Research Assistant

Artificial Intelligence Lab

Assisted faculty and graduate students with various projects dealing with computer vision, including projects focused on automatic recognition of human activities. Worked with Matlab and Microsoft Visual C++.

Seagate Technology

Summers 2001-2005

Alebra Technologies

Logic Product Development

Intern, Programmer

Worked for several companies over the course of five summers. Did work primarily in C, C++, and Java. Developed software on the Blackfin and OMAP processors for embedded Linux.

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)

Other Technology Interests

- Windows Presentation Foundation (WPF)
- Lisp/Scheme

- Cocoa/Objective-C/Mac Development
- F#/OCAML

Leadership

Lead Developer for New Revision of Product, EmergingSoft Corporation

Primary developer on a revision of the product to update the web interface. Defined how the product would look and interact in the new revision. Created mockup screens to present to management to receive design approval. Provided requirements and guidance to other developer working on the product revision.

Vice-Chair, Association for Computing Machinery (ACM) Student Chapter, UIUC

Vice-Chair of the entire 350+ member UIUC ACM chapter for Spring 2006 term. Co-chair of the Special Interest Group (SIG) for Programming Languages. Treasurer of various ACM SIGS. One of three lead organizers for the Reflections|Projections 2005 Conference, with responsibilities including recruiting speakers, designing the conference program, and managing conference advertising.

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.