

## **Eva Pierce Monsen**

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## **Qualifications**

- Software engineer with master's degree and 10+ years professional experience
- Certified ScrumMaster experienced in leading software teams using Agile development and continuous releases
- Proven ability to increase the effectiveness of software engineering teams by implementing and enforcing use of software engineering tools and practices
- Wealth of experience implementing complex scientific and statistical software for academic applications
- Experience in a wide range of platforms and languages, including C#, C/C++, .NET, SQL, Win32, Linux, Java, PHP, Perl, Ruby, Lisp

## **Experience**

### **Personal Projects**

- Created gift registry Facebook application in Ruby on Rails and MySQL
- Created web-based timesheet in Ruby on Rails and MySQL

### **Verdiem Corporation, March 2006 - December 2008**

- Led development team in building reporting software in .NET for PC power management, from inception and requirements gathering to coding, testing, and release
- Led planning of Scrum sprints and removed project impediments for Scrum teams as a certified ScrumMaster
- Designed and implemented 3-tier enterprise software for PC power management, through several major release cycles
- Developed and supported internal software tools supporting the sales cycle

### **University of Washington, May 2005 - February 2006**

- Researched computational issues in biostatistics in the John Storey Lab of the Biostatistics department
- Taught software engineering practices to statisticians through guest lectures and talks
- Grew a small biostatistics software application written in R and Tcl/Tk into a cross-platform, open-source application
- Developed computational algorithms for high-dimensional applications of biostatistics towards genome data, including microarray data

### **Freelance Software Engineering, April 2004 - present**

- For Microsoft, architected and implemented workflow management for subscription software sign-ups in C# using ASP.NET. Implemented automatic updates, and installation for same in C++ and COM.
- Implemented new features and architecture for document repository server software in Linux using C, Apache, Berkeley DB
- Streamlined issue-tracking, support, and release process for software vendors.
- Evaluated candidates' technical skills via technical phone screens for job placement service

### **4MationGeo, Inc., April 2002 - December 2003**

- Architected .NET GIS data storage and analysis server product, including "offline" data processing service
- Implemented .NET / C# software components for geostatistics, Kriging interpolation, data classification, and ESRI Shapefile processing
- Established and enforced major pieces of software engineering process for growing company, including source control, bug tracking, unit testing, and design documentation
- Designed and implemented .NET geostatistics add-ins for Statistica and MapInfo

#### **Microsoft Corporation, August 1999 - March 2002**

- Designed and coded Web application for management of reporting server product, using C#, DHTML, JavaScript, ASP.NET, and the .NET Framework
- Designed and coded developer unit test framework in C#
- Coded COM object model in C++ and parts of natural language processing engine in Lisp for Microsoft English Query
- Coded Suggestion Wizard database modeling feature of Microsoft English Query
- Designed, coded, completed conversion of hundreds of legacy regression tests for linguistic engine to XML format
- Completed training courses in .NET, Win32 Programming, Visual Basic, ASP, SQL Server Database Implementation, Using Design Patterns, Product Cycle Model

#### **Case Western Reserve University, 1998-1999**

- Master's Thesis: Programmed and investigated use of genetic algorithm to evolve neural networks controlling model lizard tongue
- Designed and implemented object-oriented CGI in C++ for browsing hierarchical directory structures, for Epidemiology department
- Graded quizzes and exams for C++ course and managed grades database
- Active member of Society of Engineers for two years, president for one semester

#### **Cycorp, Inc., 1997-1999**

- Programmed heuristics in Lisp for assimilation of online knowledge sources into Cyc common-sense knowledge base
- Programmed Web interface in Lisp and HTML for assimilation tool
- Tested Cycorp software

#### **Lafe Technologies, 1997-1998**

- Programmed digital image analysis tool for iris (eye) recognition in C++

#### **Structural Dynamics Research Corp., Summer 1996**

- Tested, performance tested, debugged customizations to product data management (PDM) software
- Implemented PDM software add-in in C
- Documented PDM software specifications and object-oriented class hierarchy

## **Education**

#### **Case Western Reserve University 1995-1999**

- M.S. in Computer Engineering and B.S. in Computer Science
- G.P.A. 3.97/4.00