

Raza Abbas Syed

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Areas of Interest

Software engineering – desktop and web development, testing, and deployment; Database Systems – Information Retrieval, Data Mining, and Statistics; Graphic Design – UI and UX development

Work Experience

ABB Inc.

R&D Engineer Intern, Summer 2009 and 2010

My internships at ABB were a supplement of my research work at NC State. My research was to gain insight into causes and characteristics of intermittent and non-reproducible failures in software systems. I gathered data on intermittent failures on an ABB system and Mozilla Firefox. Wrote two research papers describing my results, and submitted to top-tier software engineering conferences. One paper was published in April 2010, and notification of second paper is pending (citations below).

North Carolina State University

Research Assistant, Aug 2009 – May 2011

Conducted research on intermittent and non-reproducible failures by studying open source and ABB software systems. Mined data from failure repositories, and conducted statistical experiments testing several hypotheses. Developed a classification scheme for intermittent failures, and identified common attributed of intermittent failures. Additionally, built a prediction model for early detection of such failures for help in triaging and efficient use of resources towards debugging intermittent failures.

Also, I took part in development of WolfPoker, an Eclipse plug-in that helps teams collaborate on feature estimation during development. Estimation is done through a consensus-based technique called Planning Poker. Used Jazz (Rational Team Concert), Java, and Ant.

Itim Systems

Software Engineer, Jan 2008 – July 2008

My work involved developing features for company's Retail line of products – point-of-sale systems and enterprise resource planning software. Worked on both front-end and back-end for implementing new features and maintenance of existing ones using C#.NET, ASP.NET with AJAX, Javascript, and T-SQL. Used MSBuild in conjunction with VSS, and also took part in deployment. Finally, took part in development of company's proprietary F.I.X (Financial Information eXchange) e-trading engine based on FIX protocol version 4.2.

Mazik Pakistan (subsidiary of Tyler Technologies Inc.)

Software Engineer, May 2007 – Jan 2008

As part of Mazik's Dynamics division, my work entailed design and development of new features to be incorporated into Microsoft Dynamics AX 5.0. Underwent training for getting up-to-speed with technologies involved in the development of this product – specifically X++ (an object-oriented language especially for Dynamics) and MorphX (the Integrated Development environment). Worked as a Microsoft vendor for two milestones in the product lifecycle, and was designated developer for three features. All three features shipped in Dynamics AX 5.0 Release version.

Freelancer

2003 – 2007

Worked on projects ranging from software and web development to graphic design. Completed 52 projects with a rating of 9.91/10. Online profile available at:

<http://www.vworker.com/RentACoder/DotNet/SoftwareCoders/ShowBioInfo.aspx?lngAuthorId=1881536>

Technical Skills

Programming Languages

Proficient in: C#.NET (including ASP.NET), C, SQL, PHP, HTML, CSS, X++

Moderately Proficient in: C++, VB.NET, Java, Perl, Crystal Reports

Tools

Development – Visual Studio, Dynamics AX, Eclipse with Jazz, Ant, MSBuild, Visual Source Safe

Graphics - Adobe Photoshop

Web Design - Microsoft Frontpage, Microsoft Expressions Web

