

RISHIKESH MANDVIKAR

Software Engineer

linkedin.com/in/rmandvikar | github.com/rmandvikar

SKILLS:

C#, Java	ASP.NET	Web Services	NUnit, Moq, TDD
jQuery, JavaScript	.Net Framework 4.5	XML, JSON	Visual Studio Unit Testing
HTML, CSS	LINQ-SQL	WCF, REST, SOAP	Git, SVN, TFS
	Entity Framework		Windows, Linux, UNIX

WORK EXPERIENCE:

Software Engineer at Cigniti Inc, Irving, TX:

Sep 2008 – Present

- **Houghton Mifflin Harcourt (HMH) Website Redesign:**

- Rebuilt HMH website from ground up using C#, WCF, REST, .Net 4.0, Sitecore, jQuery, NUnit, Moq, Unity DI, TDD, MSMQ (Team: 7 Developers, LoC: 125k).
- Designed the system architecture with Solutions Architect during early stages, quickly developed proof of concepts, performed pros and cons of tools and frameworks.
- Implemented a User Store as WCF service by extending ASP.Net Membership user store to perform account actions, built user account UI pages, Email Service to notify upon actions.
- Built a wrapper factory class to choose implementations using Unity Dependency Injection (DI).
- Wrote 400+ unit and integration tests, followed TDD, used NUnit, Moq.
- Tuned WCF services by configuring service behaviors, binding timeouts, connections limit.
- Authored best practices documents for unit & integration testing, NUnit, Moq, Unity.
- Open-sourced numerous utility projects on GitHub (github.com/rmandvikar).

- **Reviews API for Samsung Products:**

- Used by Samsung for reviews on 15 countries.
- Designed and implemented WCF REST API to display product reviews in custom XML format. Wrote a Feed Aggregator to aggregate reviews from different review sources (review sites, blogs) using C#, .Net 4.0, REST, LINQ, MSMQ, LINQ-SQL (Team: 4 Developers, LoC: 25k).
- Created mocks for unit and integration tests, used Test Driven Development (TDD), NUnit, Moq.
- Used MSMQ for asynchronous processing to avoid IO contention, achieved 2x performance gain.
- Built a test client for unit tests, scalability, stress, performance tests of the REST API.

- **Payroll and Employee Management System:**

- Developed payroll processing business tier logic for payrolls using C#, .Net 3.5, LINQ, LINQ-SQL, TDD, NUnit 2.5 (Team: 4 Developers).
- Reduced processing time by a factor of 8 in comparison to the legacy system.
- Developed an efficient approximation algorithm for payroll processing by identifying a problem similar to the NP-complete Knapsack problem.
- Mentored peer developers on LINQ, design patterns, data structures, algorithms, SQL, SVN.

- **AdGiants MODsocket Marketing Store:**

- Enhanced a marketing web store; Used C#, .Net 2.0, jQuery (Team: 5 Developers, LoC: 325k).

Software Engineer at Lamp Technologies LLC, Dallas, TX:

May 2005 – Aug 2008

Software Engineer Intern at Lamp Technologies LLC, Dallas, TX:

May 2004 – Aug 2004

EDUCATION:

Southern Methodist University, Dallas, TX, USA.

August 2003 – May 2005

Master of Science in Computer Science

Mumbai University, Mumbai, India.

August 1998 – June 2002

Bachelor of Engineering in Computer Science

PERSONAL PROJECTS:

github.com/rmandvikar

- Utility collection of **C# extension methods** for types as Enum, IEnumerable, String, etc.
- **Trie** data structure implementation in C#.
- Website clone of **2048 game** in JavaScript, jQuery.
- JavaScript rule using on{X} Android JavaScript API to notify about **shallow battery discharges**.