

RISHIKESH MANDVIKAR

Software Engineer

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SKILLS:

C#, Java, Python	ASP.NET, MVC	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 (remote from Seattle, WA):

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.

• Omni Hotels Website:

- Rebuilt Omni Hotels website from ground up using C#, .Net 4.0, Sitecore 7, Solr, jQuery, NUnit, Unity DI, MSMQ (Team: 7 Developers, LoC: 100k).
- Used Solr for content search of Sitecore content items as Hotels, Destinations, Specials.
- Used Microdata for tagging content on pages to show rich snippets in search results.

• 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).
- Used MSMQ for asynchronous processing to avoid IO contention, achieved 2x performance gain.

• NFP Website Redesign:

- Rebuilt NFP website using C#, ASP.Net MVC 5, .Net 4.5, jQuery, AngularJS, JSON, REST.

• 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. Developed an efficient approximation algorithm for payroll processing by identifying a problem similar to the NP-complete Knapsack problem.

• 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

EDUCATION:

Southern Methodist University, Dallas, TX, USA
Mumbai University, Mumbai, India

M. Sc. Computer Science Aug 2003 – May 2005
B. E. Computer Science Aug 1998 – Jun 2002

PERSONAL PROJECTS:

github.com/rmandvikar

- Collection of utility **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**.