

Mitch Fincher

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Senior .Net C# Software Engineer with experience in designing and coding high quality web applications using technologies like MVC and .Net Core, with continuous integration in an Agile methodology like SCRUM, XP, or Kanban and with experience using automated testing like NUnit and Selenium. Known for producing quality products that improved processes and generated company revenue of over \$4M annually.

Recent Tool Stack: C#, .Net Core 2.0, .Net 4.5.1, MVC5, SQL Server, StructureMap, Git, TFS, Jira, NUnit, Selenium, Rhino Mocks, Moq, CSS3, HTML5, Bootstrap, JavaScript, JSON, and Postman

Methodologies: Agile, Scrum, XP, Kanban, Test Driven Design (TDD), Domain Driven Design (DDD), Object Oriented Design (OOD), and SOLID

Experience using Ruby (Rails), Perl, Tcl/Tk, and Lisp and writing Enterprise applications in Fortran, C, C++, Java, JavaScript, and C

PROFESSIONAL EXPERIENCE

General Motors, Austin, TX

June 2016 to February 2019

Senior Software Engineer

Developed web software using the C# .Net Core 2.0 framework.

- Wrote code to interface with REST API's using a Domain Driven Design approach with mappers, services, and repositories to quickly update user information in remote system
- Wrote JavaScript to consume objects from MVC to place on web pages to create a shopping page with tiles of cars to improve sales
- Wrote back-end C# code, front-end JavaScript, HTML, and CSS for GM's website ShopCarsNow.com to increase sales
- Increased proficiency of junior programmers by serving as a mentor and presenting workshops and code reviews in Test Driven Development, Dependency Injection, Domain Driven Design, Patterns, and Object Oriented Design.

Kantar, Austin, TX

May 1997 to February 2016

Senior Software Developer/Manager

Senior programmer, promoted to team lead, then manager.

Worked on the following projects:

"CRV" replaced human support with automation by creating a web-based reporting tool allowing clients to visualize the progress of their surveys in real time

- Wrote MVC and web api C# code, NUnit tests, and Selenium tests to automate away human intervention
- Used SCRUM methodology including daily meetings, retrospectives, two-week cycles, iterative planning, and planning poker to speed development
- Utilized TeamCity for continuous integration, Octopus for deployment, Jira for story documentation and StructureMap for Dependency Injection

Worked on "Survey Director," an optimization engine that routes web survey takers in real time to the most profitable survey needing their demographics and history, which made the company \$4M annually

- Lead Architect/Programmer who wrote the original design document from scratch and specified the databases, major software components, state diagrams, and interactions using UML
- Survey Director currently processes 2.5M respondents per year, with 125M records and data spread across four databases
- Designed the databases, optimized the indexes, scheduled maintenance procedures and wrote programs to monitor performance
- Met the release date
- Wrote a Command Line Interpreter (CLI) to program it through scripts
- Extensive use of unit, integration and endurance testing contributed to a high quality product that is still running 24/7. In 12 years, no time has been lost to software malfunction.
- Wrote an Object Relational Mapping (ORM) framework to map C# objects to databases in 2003 (before NHibernate was available)
- Increased team members' productivity in software engineering, object-oriented design, Test-Driven Design, and C# by providing mentoring and training

"Hercules" was an online Java-based survey tool that used survey definitions from an XML file, generated HTML pages for surveys and stored the results in a database.

- Designed the 3-tier web application and database from scratch. Used Java servlets and JSP pages with a SQL Server backend
- Gathered requirements and wrote all design documents
- Modeled the system in UML and generated the original base classes in TogetherJ
- Led a team of 4 developers and 2 testers to successfully implement that design
- Tested components using JUnit
- Scheduled implementation and testing using Microsoft Project

EDUCATION

M.S. in Computer Science, Texas A&M University, College Station, TX

B.S. in Civil Engineering, Texas Tech University Lubbock, TX

Scrum Master Certification by Scrum Alliance and Java Certification from Sun Groups
Member, Austin .Net Users Group, Agile Austin, Austin Electric Auto Association

OTHER RELEVANT INFORMATION

Personal Website: www.fischer.org. Blog at mitchfincher.blogspot.com. Twitter: @mitchfincher