T.J. Barbour

Experienced software developer looking for a remote position

Experience 10 Years tjbarbour@gmail.com

Main Skills C#, HTML, CSS, JavaScript 858 382 0360

Frameworks .net, ASP.net MVC, jQuery, Bootstrap, WCF 11429 Florindo Road

Tools Visual Studio. TFS. NuGet San Diego CA 92127 **Specializations** UI, UX, Security, Multi-Tiered Design www.tjbarbour.com

-EXPERIENCE-

ARRIS (Formerly Motorola)

Staff Software A lead developer involved in system design, implementation, and project management Engineer among other responsibilities in the "PKI Center" security department with a focus on

NOV

2006

Present

2015

8.5

Years

User Interfaces and User Experience.

Technology

Web Front-End jQuery, Bootstrap, LESS

Web Server ASP.net MVC & Web Forms, Razor templates, ASPX templates

Native Front-End Windows Forms, Silverlight

Back-End Services C#, .net, Windows Communication Foundation (WCF), XML/SOAP (ASMX)

Business Layer AutoMapper, Windows Services, Log4Net

Data Layer Entity Framework, LINQ to SQL, Microsoft SQL Server

Other SafeNet Hardware Security Modules (HSM)

Tools Visual Studio, NuGet, TFS, LINQ Pad, Paint.net MS Office, SharePoint

Responsibilities

UX Lead

- Lead an effort to define a unified style for all department web applications
- Investigated and prototyped web technologies
- Designed UI workflows using mockups
- Worked with management and requirements teams approve designs
- Selected quality graphics design resources
- Performed basic graphic creating and editing tasks
- **Core Developer**
- Created helpful libraries to share code and reduce complexity
- Implemented core features of various systems for managing secure data
- Developed more than five ASP.net web applications
- Lead, participated in and encouraged code & design reviews
- Created unit and integration tests
- Called on to debug complex issues when others needed assistance
- Documented system design

Team Leader

- Performed Project Management, planning and coordination
- Made efforts to share useful knowledge with colleagues across projects
- Monitored and alerted operations teams of security vulnerabilities
- Active in system design process while encouraging others to participate
- Interviewed candidates from the intern to the senior level
- Mentored and trained others including new staff, interns and colleagues
- Delivered presentations on development topics and project updates
- Helped standardize commonly used libraries and tools across projects

Projects

Web Package

Optimus Standardized and simplified web application development by integrating common libraries (ASP.net MVC, AutoMapper etc.) and establishing patterns and templates which removed the need for creating views (html) in most cases. This resulted in much leaner codebases that were easier to maintain.

Web Package

Mirage Standardized department web design across most applications after a formal design evaluation process where visual standards were defined for typography, layout, colors, etc. Afterward, applicable web resources (Bootstrap, jQuery etc.) and style definitions (LESS) were encapsulated in this NuGet package.

ULS Web Application (link)*

Designed and implemented a web application performing software feature-licensing that integrated with a sales order system for license credit tracking, administrative functionality and reports as well as web services for automated license generation.

Portal Web Application (in-progress) (link)

Designed and implemented a Single-Sign-On service that enabled multi-factor authentication using Time-Based One Time Passwords (RFC6238) and LDAP for our department websites.

PKI Works Web Application (link)*

Implemented a customer-facing web application and a separate administration website for certificate generation and certificate authority management that used Two-way SSL with a client USB token for authentication.

PRISM Web Application

Implemented a web application with a plug-in based custom code signature generation system which supported various secure hardware platforms. It also included delegated user management and contextual role-based authorization.

Locksmith Service

Implemented a secure data pre-generation system that improved application performance by orders of magnitude. It included a client library, adapter layer for legacy applications, monitoring application, test client and a full suite of unit tests

Participated in filing four patents, one approved (#20110047374) Other

> Participated in technology, standards and process evaluation group to research and decide standard tools and libraries.

> Commissioner of the Ultimate Frisbee lunchtime pick-up game, over 100 games played *You might see an SSL certificate warning because our certificates are not in wide distribution

> > JUN

2005

NOV

2006

1.5

Years

CUBIC Transportation Systems

Software Software engineering intern while attending university. Contributed to code for **Engineering Intern** portable devices used in transportation fare systems, interfaced with QA and worked with technical documentation.

Technology

Mobile Application C++, MFC, PocketPC

Tools Visual Studio 2003

Responsibilities

Developer Developed MFC C++ code for the Pocket PC / Windows CE application

Regularly gave builds to QA, familiarized them with changes and discussed their findings to simplify the software development

Documentation Clarified software functionality and changes with technical writers

Projects

Hand Held Unit Contributed to the mobile application code which was used for checking smart card fares on light rail systems and for mobile printing, this was tested across several municipality transportation systems.

PREVIOUS EXPERIENCE

Tutoring Club

AUG JAN 6 2004 2005 Months

Tutor

- Tutored students of all levels including K-12, College and adult in reading, writing, sciences and a focus on mathematics
- First tutor employed by this center, assisted with opening, closing, monitoring students' progress and promoting the business

MESA Engineering Program

SEP DEC 3 2003 2003 Months

Semester Workshop

- Prepared and conducted a semi-weekly two hour Calculus I workshop
- **Leader** Created worksheets and lesson plans for each workshop
 - Summarized lecture material, answered student questions and prepared them for exams.

Burger King

AUG AUG 2 2000 2002 Years

DEC

2006

GPA

3.94

Manager

- Responsible for running and closing the restaurant, verifying cash register tills, taking inventory and tracking daily sales with spreadsheets
- Conducted interviews, trained crew, translated English and Spanish between crew and management
- Earned position after starting as a crew member and gaining experience

EDUCATION-

San Diego State University

Bachelors of Science in Computer Engineering Minor in Spanish

Accomplishments

- Graduated Summa Cum Laude honors
- Member of Dean's list each semester

Course Topics

- C Programming, C++ OOP, C#
- Electrical Engineering,

- Physics, Math

SEP

2002

- Windows Programming
- Embedded Systems programming

University of California San Diego

SEP JAN GPA 2007 2013 3.3

Coursework toward Masters in Computer Science

Accomplishments

- Completed all required coursework for Master's program
- Contributed to Android application used in University Project "<u>CitiSense</u>"

Course Topics

- Software Engineering
- Human Computer Interactions
- Ubiquitous Computing
- Computer Graphics

-SKILLS LIST -

.net	C#	Java	Microsoft Windows	SQL
ASP.net	C++	JavaScript	Microsoft Office	SQL Server Management Studio
ASP.net MVC	Eclipse	jQuery	Node.js	Team Foundation Server
AutoMapper	Entity Framework	LINQPad	NuGet	Visual Studio
С	git	Linux / Ubuntu	Silverlight	WCF

Bilingual in English / Spanish