Chase M. Marcum
Software Engineer / Web Developer

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Summary of Qualifications

☐ Extensive education on **software development** through **practical application** and **theory**, encompassing **design**, **development**, **deployment**, and **maintenance** of a software product.
☐ Proven **ability** to make **informed decisions**, **adapt to situations**, and **seek understanding**.
☐ Ability to **manage** and **prioritize** multiple tasks/projects and deadlines simultaneously.
☐ Over 14 years of successful experience in **management**, **supervision** and **customer service**.

Technical Skills

ASP.NET MVC	**WCF**	**HTML5 & CSS**	**Java**
ASP.NET SPA	**Web API**	**JavaScript**	**JUnit**
ASP.NET	**NUnit**	**jQuery**	**Source Control**
C# Programing	**Visual Studio**	**Bootstrap**	**MS Office Suite**
C++ Programing	**JSON**	**Knockout**	**Word**
SQL Server	**Async**	**AngularJS**	**Excel**
LINQ	**Windows**	**Win 8 App Dev**	**PowerPoint**
Adobe Photoshop	**Adobe Illustrator**		

Examples of my work at **chasemarcum.net**

Education

Oregon Institute of Technology
Wilsonville, OR   2011 – present

Bachelor of Science in Software Engineering Technology
Expected completion: June 2015
GPA: 3.64

Currently at Oregon Tech I am working on completing my Senior Project by developing a Single Page Application (SPA) with role based security utilizing the core elements of ASP.NET, Web API, and AngularJS, which is the final requirement I need to obtain my Bachelor of Science in Software Engineering Technology. During the Junior Team Project in Software Process Management, Design, and Implementation I took on the Team Lead role, where we utilized the Agile and Scrum software development process to gather requirements, model, analyze, develop and integrate our n-tiered architecture product. In the project we developed a prototype, delivered a complete Pre Plan Documentation, and delivered a total of three iterations of our product with updated documentation.

I have gained knowledge of data structures, theory of computation, operating systems, compilers, programming languages, and computer architecture. I have developed an understanding of the software development cycles of design, development, deployment, and maintenance. I have also applied my abilities to identify, formulate, and solve software engineering problems, through the specification, design, implementation, and testing of software systems.

Mt. Hood Community College
Gresham, OR   2010 – 2012

Associate of Science in Computer Science
Honors: Phi Theta Kappa Honor Society, President's Honor
GPA: 3.96

At Mt. Hood Community College I completed the pre-engineering program in Computer Science and earned an Associate of Science degree with honors by earning a 3.96 GPA, awarded being on the President's Honor Roll during my entire enrollment, and being accepted into the Phi Theta Kappa Honor Society.

In earning my Associate of Science degree the skills I developed were:
- Applying advance mathematics, scientific physics theories, and engineering concepts.
- Designing and conducting test, as well as analyzing and interpreting data.
- Designing a system, component, or process to meet desired needs within realistic constraints.
- Effectively working with multidisciplinary teams.
- Identifying, formulating, and solving engineering problems.
- Understanding professional and ethical responsibilities.

Skills and Experience

SOFTWARE DEVELOPMENT

- ☐ **Team Lead** in Oregon Tech's junior software development project, utilizing the **Agile** and **SCRUM software development** process to gather **requirements**, **model**, **analyze**, **develop** and **integrate** an **n-tiered architecture** product.
- ☐ The ability to **identify**, **formulate**, and **solve** software engineering problems, through the **specification**, **design**, **implementation**, and **testing** of software systems.
- ☐ Knowledge of **data structures**, **theory of computation**, **operating systems**, **compilers**, **programming languages**, and **computer architecture**.
- ☐ Understanding of the **software development life cycles (SDLC)** of design, development, deployment, and maintenance.
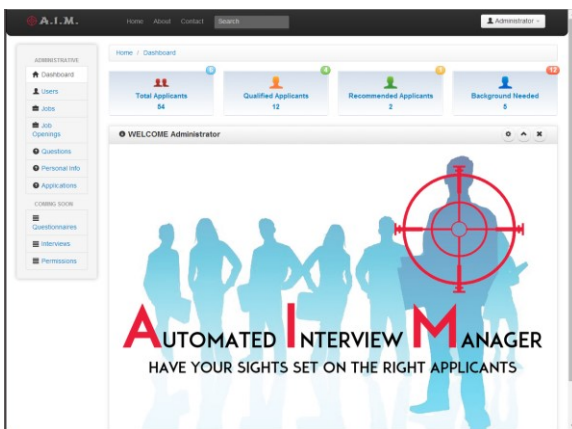
IT SERVICES

- ☐ **Ensured** all company facilities/departments are up, running and **operational 365 days a year**.
- ☐ Primary IT **support** for seven medical clinic locations, business office, and billing department.
- ☐ **Planned**, **organized**, **scheduled**, and **coordinated** diverse IT projects and activities.
- ☐ Preserved the **integrity** of the company's website by **routine updates** and **revisions**.
- ☐ **Sustained** and **managed** all company's social media accounts.

MANAGEMENT, SALES, AND CUSTOMER SERVICE

- ☐ Ensured overall excellence in **operations**, **risk management**, **training**, and **compliance performance**.
- ☐ Scheduled staff and store resources to ensure **appropriate coverage** to **meet company goals**.
- ☐ Continuously **improved** company's **performance**, **operational excellence** and associate proficiency.
- ☐ **Provided positive** and **constructive feedback** to help employees improve their skills.
- ☐ **Led** and **trained** customer service standards and **achieved** top sales results.
- ☐ **Identified opportunities** and referred to appropriate divisions within company.
- ☐ **Developed** new business with current and prospective customers.
- ☐ Assisted in growing extensive sales, operations and product knowledge through ongoing **training**.
- ☐ **Formulated** business strategies and **drove** results by **aligning** store goals with company goals.

Portfolio

N-Tiered ASP.NET MVC, ASP.NET Web API, and Entity Framework application

I took on the role of Team Lead in Oregon Tech's three term Junior Team Project in Software Process Management, Design, and Implementation, where we utilized the Agile and Scrum software development process to gather requirements, model, analyze, develop and integrate our n-tiered architecture product. In the project we developed a prototype, delivered a complete Pre Plan Documentation, and delivered a total of three iterations of our product with updated documentation.

Our team was given the scenario that a company selected us to create an automated job application system. During the Pre Planning process we gathered requirements, modeled, analyzed, and created a Project Notebook; some of the documents included the Project Plan, Requirements, Domain Model, Storyboards, Architecture Plan, and QA Plan. Throughout the project our Project Notebook was updated as needed, including weekly Status Reports.

Our first Iteration we developed the database schema in SQL, deployed the database into Azure SQL, developed a WCF Service, developed an ASP.NET MVC administrative website with the functionality to create/edit/delete users and job objects, and developed the UI for the administrative website. We established a Git repository for our source control, used Google Drive to collaborate on documents, and used Skype to communicate outside of our in person meetings.

In Iteration 2 we developed an ASP.NET MVC client application website with the UI and functionality to select a region at the start of the application, a view to display open jobs by region and their detail views, an application view, a separate WCF Service for the client website, and Unit Tests for services and controllers. Continued to utilize Git, Google Drive, and Skype for group collaboration.

In our final Integration 3 we had to redesign and recreate our Services. In the redesign we developed ASP.NET Web API Services to replace the initial WCF Services, developed a JavaScript testing tool for the service, then deployed and published the services in Azure Cloud Services and Azure Storage. We completed the functionality for the client application website, implemented user login permissions for the administrative site, added additional features to the administrative website, then deployed and published both websites in Azure Web.

Repository: github.com/ChaseMarcum/N-Tiered-ASP.NET-MVC--ASP.NET-Web-API--and-Entity-Framework-application

Utilized: **ASP.NET MVC**, **ASP.NET Web API**, **WCF**, **C#**, **Entity Framework**, **SQL**, **LINQ**, **HTML**, **CSS**, **JavaScript**, **JQuery**, **JSON**, **Bootstrap**, **NUnit**, **Git**, **Azure SQL**, **Azure Cloud Services**, **Azure Storage**, **Azure Web Sites**, **SQL Server**, **Visual Studio 2013**, **Google Drive**, **Google Docs**, **Skype**, and **Word**.

chasemarcum.net Website   chasemarcum.net

While taking my Web Design and Development course I wanted to explore and learn additional skills in Web Development. I took those skills and utilized additional resources to learn how to design, plan, develop, and deploy my personal website. Since that course I have continually worked on developing the site by adding new features and content.

The website is a One Page Responsive design utilizing HTML, CSS, JavaScript, JQuery, and Bootstrap. It is designed to complement my resume by having a similar clean look and style, to respond to the size of the viewing device to maintain a clean look on desktop, tablet, and mobile devices, and a One Page design for quick navigation.
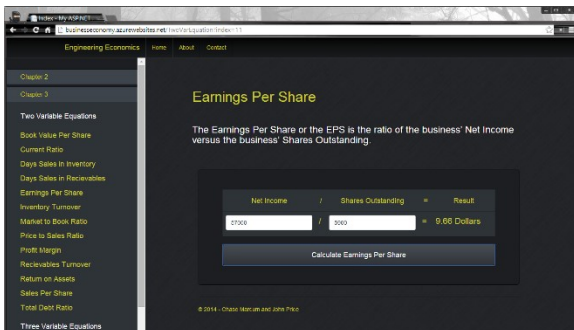
- Responsive One Page Design.

Repository: **github.com/ChaseMarcum/chasemarcum.net**

Utilized: **HTML**, **CSS**, **JavaScript**, **JQuery**, **Bootstrap**, **SyntaxHighlighter**, **WebMatrix**, and **Sublime**.

Business Economics Calculator Website   businesseconomy.azurewebsites.net

My partner and I decided to design, develop, and deploy a Business Economic Calculator website in lieu of writing a final paper to expand and practice our software / web development skills.

We implemented 29 business economic formulas. When implementing the economic equations that required two variables from the user or three variables from the user we designed and implemented a controller and view for two variable equations and three variable equations that displays and calculates the correct formula based on the model selected.

We utilized JavaScript to perform the calculations and produce the result for the user once they entered the required information and clicked the calculate button. The design for the Time Value Money formulas also are calculated using JavaScript with the logic to perform the correct calculation based on the missing variable on the form.

- 29 Business Economic formulas descriptions and calculator.
- Time Value Money calculator that can calculate Future Value, Present Value, Rate, Number of Periods, or Payment.
- Simple Balance Sheet form.
- Simple Income Statement form.
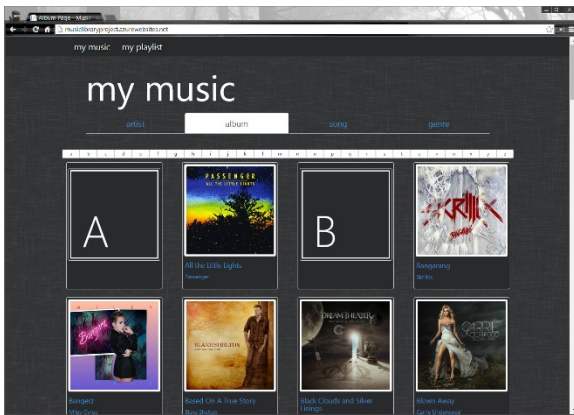- Expanding Sidebar Menu.

Repository link: **github.com/ChaseMarcum/TVM**

Utilized: **ASP.NET MVC**, **C#**, **HTML**, **CSS**, **JavaScript**, **JQuery**, **JQuery UI**, **Bootstrap**, and **Visual Studio 2013**.

Music Library ASP.NET MVC and SQL Database Prototype   musiclibraryproject.azurewebsites.net

In the initial phase of Oregon Tech's three term Junior Team Project in Software Process Management, Design, and Implementation, where we utilized the Agile and Scrum software development process to gather requirements, model, analyze, develop and integrate our n-tiered architecture product, we developed a prototype project. Our prototype project was

to demonstrate our ability to work as a team in the design and implementation of an ASP.NET MVC web application and a SQL database.

To demonstrate our skill and knowledge we developed and deployed an ASP.NET MVC Web application that stores a music library and allows you to add and remove songs to a playlist. As a team we collaborated in developing and populating some test data by writing the SQL script in Google drive then initially running the script and creating the database in MySQL. Our initial database in MySQL was only available locally, to insure consistent data in our data we migrated and published our database to Windows Azure SQL.
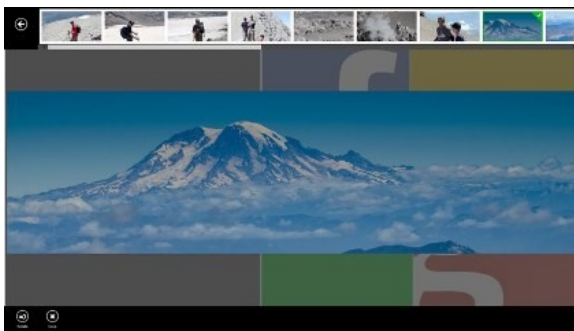
We designed a UI concept to display the music by album, artist, song, genre, album detail, and playlist and I executed the design by using HTML, Razor, Bootstrap, and CSS. The ability to add a song to the playlist is through the album detail view or song list view by clicking the add button. The ability to remove a song from the playlist is in the playlist view by clicking the remove button.

Repository link: **github.com/ChaseMarcum/CST316-Project**

Utilized: **ASP.NET MVC**, **C#**, **Entity Framework**, **SQL**, **MySQL**, **LINQ**, **HTML**, **CSS**, **JavaScript**, **Bootstrap**, **Git**, **SQL Server**, **Azure SQL**, **Azure Web**, and **Visual Studio 2013**.

Social Photo Collage Windows 8 Application   **Windows Store Link**

During an 8 week term at Oregon Tech I designed, developed, and published a HTML5 and JavaScript Windows 8 app to the Windows Store. This was a great accomplishment for me considering I was very green with programing in JavaScript and had to learn the syntax during the process. I am looking forward to continued work improving and expanding the features of this application.

Social Photo Collage accesses your My Pictures photo library and sorts the photos by their date created and displays them in sections organized by month. You can select individual photos or select to open the month sections to view all photos in that folder. The program allows you the ability to edit your photos by croppin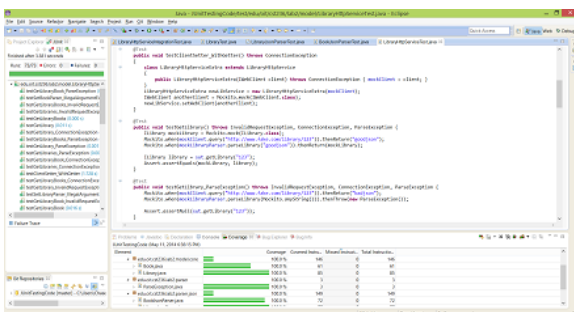g or rotating them and saving your changes. In future builds I plan to add additional access to photos in social media and then allow you to create a collage of your photos.

- View photos from My Photos folder on the Users computer.
- Organize and view photos by date created.
- Edit photos by cropping and rotating photos.

Utilized: **HTML**, **CSS**, **JavaScript**, **Windows 8 Application**, **Visual Studio 2012**, and **Blend**.

Integration and Unit tests   Repository link: **github.com/ChaseMarcum/JUnitTestingCode**

Developed Integration and Unit tests in Java.

In my Software System Testing course I was provided code that someone else has written (poorly) to identify and fix errors through testing. I started by familiarizing myself with the application and interfaces, then wrote unit tests utilizing fixtures, doubles, mocks, and stubs to isolate testing in JUnit. When errors were identified through the unit tests, I made the needed adjustments to the code.

Once the unit tests were complete I wrote integration test to test the flow and interconnections between the modules. When errors were identified through the integration tests, I made the needed adjustments to the code.

Repository: **github.com/ChaseMarcum/JUnitTestingCode**

Systems Utilized: **Java**, **Junit**, **Mockito**, and **Eclipse**.

Employment History

| 2012 – 2013 | **IT/Facilities Specialist** | **Northwest Urgent Care, LLC** | **Gresham, OR** |

I was brought on to Northwest Urgent Care to solely take over the **Networking** and **IT** responsibilities of the business that was previously managed by a third party company. I started with Northwest Urgent Care to **gain working knowledge** and **experience** in the computer industry while attending school at Oregon Tech full-time. I was able to utilize many of my previous work experience skills to this position that allowed me to excel in my duties and responsibilities. With my customer **service skills** I was able to establish and maintain **effective working relationships** with co-workers and vendors. Through my **management skills** I was able to **plan**, **organize**, **schedule**, and **coordinate** diverse IT and/or building maintenance **projects** and activities. This position also allowed me to expand and gain on my current knowledge of Networking and computer that I have gained through school and experience. Key accomplishments that I have done at Northwest Urgent Care are as follows:

- In August 2012 I effectively **planned** and **implemented** an upgrade of the clinics Electronic Medical Records system from Centricity CPS 8 to Centricity CPS 10. This included installing a new **server** to become the new **primary domain controller**, repurposing the existing servers and setting one up as a new **terminal server**, transferring the **SQL** database to the new **SQL server**, and upgrading a majority of the clinics workstations.
- I was part of the project management team that **designed**, **planned**, and **executed** the building of the Urgent Care Express Clinic that opened in November 2012. This included installing a new terminal **server** to the domain, setting up new **workstations**, setting up a public wireless network, and creating a large digital sign for the front windows.
- **Designed**, **built**, and **managed** the website **http://www.u-c-express.com** for our Urgent Care Express Clinic, including the mobile website.
- **Preserved** and **sustained** the **integrity** of the company's websites and all company's social media accounts.
- Participated in the process of **planning** and **implementing** a rebranding of all clinics to reflect name change to Northwest Urgent Care. This included obtaining bids and communicating to different vendors to change existing building signage, replace marketing material, and redesign the website and social media accounts.

| 2006 – 2010 | **Assistant Banking Center Manager** | **Bank of America** | **Portland, OR** |

I was recruited to Bank of America to become the Assistant Banking Center Manager for the highest volume banking center within the Portland Metro Market, Eastport Plaza Banking Center. I came to Bank of America to learn, grow and experience the **operations** of banking, while also **improving** and **utilizing** my previous **management skills** and **experience**. Through the partnership of my Market Executive Manager, we determined the next natural step for my development was to step into the Personal Banker role to further my skills in sales, while also assisting other banking centers in **operations**. In the transition period with Bank of America I have had great experience in assisting other banking centers, while also **building relationships** and **networking** with other associates of our market. My additional accomplishments within the company were as follows:

- Within my first four months with Bank of America I was able to bring the banking center from a previous operational audit score of 6 out of 10 to an **improved** score of 8. Through **managing** and **coaching** I was also able to **improve** tellers **achieving** their referral **goals** from 43% to 100% of tellers meeting or **exceeding** their referral **goals**.
- For the first quarter of 2007, Eastport Plaza Banking Center was at 87% of their goal for checking account production. Upon completing the fourth quarter of 2007 the banking center was at **109% to goal** with an **increase in performance** in all other sales areas by 20%. This placed Eastport Plaza for performance to goals within the **top 3** banking centers in the Portland Metro Market.

| 2005 – 2006 | **Small Business Specialist** | **US Bank** | **Beaverton, OR** |

Within my first year with US Bank I initially stepped into a Personal Banker role with the intention to learn banking sales and **operations**. As a Personal Banker I performed as a **top new banker** within the region. I was quickly **identified** as a management candidate and was introduced into the "Emerging Leaders" program due to my past **management experience**, **sales experience** and my **performance** as a personal banker. US Bank then created a pilot Small Business Specialist position and it was my next natural step for positive **growth** within the company. As a Small Business Specialist, I went through **extensive training** and job shadowing. The Small Business Specialist position gave me a great opportunity to build small business sales. US Bank is now expanding the role within the company. My additional accomplishments within the company were as follows:

- In 2006 through personal bookings and referrals to my Business Banking Officer I **produced 1.4 million dollars** in new small business loans for third quarter and **1.2 million dollars** in fourth quarter.
- Beaverton Main Branch was recognized in the region as one of the **top branches** for their small business **growth** in 2006, ranked 3 out of 77.

| 1997 – 2005 | **Operations/Merchandise Manager** | **Old Navy** | **Clackamas, OR** |

My **experience** revolved around **multiple** store locations and various **management** titles. Responsibilities within my role as a manager **continually grew** in size and scope. They **encompassed** expanding dollar volumes, **complex training**, and **development** of various levels of staff. In **addition** to my regular duties I had taken on district positions that include District "StaffWorks" Program Expert, District Operational Audit team member, and assisted as a store opener in various locations throughout the region.