

# Marissa Twitchell

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## SKILLS

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- Programming Languages: Java, C#, Powershell, C++, C, Ruby, Swift, Android
- Web Development: React, Typescript, NPM, HTML, CSS, JavaScript, Bootstrap, FTL, HBS
- Database Querying Languages: KQL, SQL, Mongo NoSQL, Splunk SPL, HiveQL, Spark SQL
- Version Control: Git, Source Depot, Perforce, SVN
- Integrated Development Environments: VS Code, Visual Studio, IntelliJ IDEA
- Development Tools: Azure DevOps, Jenkins, Splunk, SSMS

## EXPERIENCE

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### Software Development Engineer 2

December 2017 – Present

*Microsoft, Redmond, WA*

- Led initiative to save \$3 million per year on the Azure Cloud Disaster Recovery team by decommissioning >200 of system's excess machines. There were no capacity or live site issues caused after decommissioning these machines.
- Led successful rollout of TLS 1.2 compliance on 1,000 machines as part of a \$10 billion dollar government contract.
- Designed and created new automation written in C# to trigger test builds that were previously performed manually as well as a dashboard using Azure Data Explorer to communicate status.
- Monitored health of system's services and infrastructure by participating in team's on-call rotation.
- Developed features and priority bug fixes in C and C++ to the Excel desktop application, an application used by 120 million users.
- Features developed using industry best practices in the software life cycle (version control, A/B feature gating, automated testing, error logging, code reviews, localization, customer feedback, accessibility, security).

### Software Development Engineer 2

April 2015 – November 2017

*Expedia, Bellevue, WA*

- Implemented a front-page feature on an iOS application with more than 400k downloads and gained familiarity with custom extensions and exposing data to the view.
- Enhanced a product used by 4.6 million users monthly that saves search history across devices, increasing customer repeat rate.
- Built responsive headers and footers for Expedia brands seen by over 300k visitors daily and assisted in a project to move brand headers and footers to a cloud-based solution to improve page loading speeds.
- Automated a manual process, which required building a service endpoint to retrieve data, a Java/Spring rules engine, storage in AWS S3, an interface, and was scheduled by a Jenkins job
- Monitored the health of the team's technical system by tracking hourly bookings.

### Software Developer Consultant

May 2012 – August 2012, August 2013 – April 2015

*Pariveda Solutions, Bellevue, WA*

- Awarded "ESOP Maximizer" at Pariveda Solutions for client contributions.
- Developed automated test cases using headless browser PhantomJS and additional acceptance tests using the Cucumber toolset in conjunction with Ruby/Watir.

- Pulled data from big data sources (>30 TB) using both Hadoop/Hive and IBM/Netezza data warehouses writing HiveQL and SQL using WinSQL and Aginity as database clients.
- Developed company-wide reference implementation to handle push notifications for Android.
- Automated a four-hour, manual process using Automation Anywhere, a scraping tool.
- Performed data mining and business intelligence on customer database using QlikView.

### **Software Developer**

April 2011 – December 2011

*The Church of Jesus Christ of Latter-day Saints, Riverton, UT*

- Provided bug fixes to a Java/Spring application used by Managing Directors with special interest in contributing clear, maintainable code
- Created automated test cases using the Ruby/Watir framework for a PeopleSoft Human Capital Management 9.1 upgrade

### **Unix Home Office Developer**

May 2010 – August 2010

*Walmart, Bentonville, AR*

- Gathered requirements for, planned, developed, and launched a server-maintenance-scheduling application using .NET and C#, creating an automated scheduling system for 3500 servers that is estimated to save over 300 hours of associate time

### **Data Mining Research Assistant**

May 2009 – August 2009

*Data Mining Lab at Brigham Young University, Provo, UT*

- Gained experience as a data mining research assistant by working for computer science professor Christophe Giraud-Carrier
- Participated in a data mining competition and later used the skillset to place on the leaderboard at 190/263 for a Kaggle competition (<https://www.kaggle.com/satoukum>)

## **VOLUNTEER**

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### **Website Developer**

2020 – Present

*Self, Sammamish, WA*

- Created nonprofit website <https://100wwc.com> (free of charge), which led to finding \$15k/year in donor matching funds. In my community, a group of women formed a local chapter of “100 Women Who Care” who meet three times a year to crowdfund local nonprofits. After creating our chapter’s website, I submitted a form to add a link to it on the nationwide parent page and was contacted by a wealthy doner who was impressed by our chapter and wanted to match what our team raises at 50%.
- Created neighborhood homeowners’ association website <https://tremontsammamish.com> (free of charge). As part of my involvement with my local neighborhood, I created our HOA website to share general information with neighbors.

## **EDUCATION**

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### **Masters of Information Systems Management**

June 2013

*Brigham Young University, Provo, UT*

### **Bachelor of Science Degree in Information Systems**

June 2013

*Brigham Young University, Provo, UT*