# Michael Ward

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## Technical Expertise

**Programming**: Java | Python | C++| SQL | C# | REST APIs | JavaScript | HTML5 | CSS3
**Cloud Services:** *AWS* - S3, DynamoDB, EC2 | *Azure* - Cosmos DB, Blob Storage

## Education

**University of Washington** | Bothell, WA

**BS, *Computer Science* - 2019**
- September 2017 - June 2019
- 3.64 GPA

**BA, *Business Administration, Finance* - 2013**
- September 2011 - December 2013
- 3.74 GPA

## Professional Work

**T-Mobile**

**TechX Intern** **October 2018 - Present**

iOS Development for the T-Mobile Tuesday App
- Implemented and updated features on the app using Swift

Independently developed from designs functional and dynamic user module on internal website
- Used HTML/CSS and JavaScript (jQuery)

## Academic Projects

**Cloud Computing**

**Quiz Application** Group Project **December 2018**

C# full stack app for users to play a quiz game, retrieving information from a public API
- Front end presentation layer written in HTML and JavaScript using ASP.NET framework
- C# service layer fetched and inserted data into database, retrieved quiz API data
  - Stored user data, such as login credentials and quiz scores, in DynamoDB
  - Developed custom REST API to display user quiz results to users

**Weather Application** **December 2018**

Java application retrieving 3rd party API data to format and display for users
- Created server that made HTTP requests to fetch weather data given a city parameter
- Converted data from JSON to custom Java model and displayed formatted data to user

**Machine Learning**

**Wine Classification** **June 2018**

Classified wine using Python into three categories using 10 machine learning algorithms.
- Researched and tested machine learning techniques on the UC Irvine Red Wine Dataset.
  - Models included K-Nearest Neighbor, Logistic Regression, and Neural Networks.
- Average accuracy after 10-fold cross validation reached 99.3% using three classification labels

**Data Structures and Algorithms II**

**Movie Store Design and Implementation** Group Project **January 2018**

Designed and implemented on a team a C++ ecosystem to represent a movie store, such as Blockbuster.
- Used trees, hash functions, and factory methods to efficiently store data.
  - Kept track of customers, movie rentals, movie inventory, and late fees.

**Fun fact:** I make a mean bowl of Kraft original Mac N Cheese!
**Website**: http://students.washington.edu/wardm5