

# MISHA WARD

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## TECHNICAL SKILLS

**Programming:** Java, Python, Swift, Scala, Ruby

**Operating Systems:** Linux, Windows, Unix

**Course Work:** Cloud Computing, Data Structures and Algorithms, Database Systems, Machine Learning

**Cloud and Big Data:** AWS - S3, DynamoDB, EC2, RDS, SNS, SQS | Azure - Cosmos DB, Blob Storage

**Web Design:** JSON, REST/RPC APIs, HTML, CSS, JavaScript

## EDUCATION

**Bachelor of Science, Computer Science**

June 2019

University of Washington, Bothell WA

**Bachelor of Arts, Business Administration, Finance**

December 2013

University of Washington, Bothell WA

- Elected Chair of the Student Technology Fee Committee tasked with allocating \$400,000 of student fees

## EXPERIENCE

**Software Development Engineer, Amazon.com**

August 2020 - Present

*Whole Foods Market Backend Engineer - Java, Swift, Python, Scala, Ruby, TypeScript*

- Implemented critical iOS app front end changes ahead of schedule, unblocking project pilot to go forward
- Designed and increased new unit and integration test coverage for critical services by ~50% of use cases
- Reduced system strain by 100s of calls by adding a new RPC API in Scala to handle batch calls
- Researched and implemented canary monitoring for services using TypeScript and AWS CloudFormation, alerting team to issues before customer outreach
- Designed and implemented an automation project to add new resources and APIs, cutting process time from hours to seconds, and allowing a critical pilot program a smooth start. Received positive reviews from senior PMs

**Data Engineering Fellow, Insight Data Science**

January 2020 - June 2020

*AutoRecruit, GitHub Analyzation Tool - Python, Spark, SQL, CSS/HTML*

- Architected a ETL pipeline utilizing S3, Spark, PostgreSQL, and Dash/Flask by processing 356GB of data
- Built a dynamic dashboard using a Flask app for recruiters to view and analyze a candidate's GitHub profile
- Implemented API, web app, and pipeline using Python and object oriented principles for scale and reusability

**Mobile Software Engineer Intern, T-Mobile**

October 2018 - June 2019

*iOS Development for the T-Mobile Tuesday Application - Swift, JavaScript, HTML/CSS*

- Successfully launched new front end features on the T-Mobile Tuesdays iOS app using Swift
- Created an iOS application, utilizing OO principles and internal login APIs for future A/B testing playground
- Used and worked in collaborative environment using Agile/Scrum methodology

## PROJECTS

**Quiz Web Application, Cloud Computing - C#, Javascript, CSS/HTML**

Fall 2018

- Built a full stack, dynamic online website for users to play a quiz game and REST API
- Developed **C#** service layer that fetched, inserted data into database, and retrieved quiz API data for users
- Stored user data, such as login credentials and quiz scores, in DynamoDB allowing for quick access to info

**Weather Application, Cloud Computing - Java**

Fall 2018

- Programmed 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

**Fun fact:** I make a mean bowl of Kraft original Mac N Cheese!