

# Melroy Dsouza

(425) 240-7251 | mrd@sou.wa.edu | www.linkedin.com/in/mrdsouza | https://github.com/mdsouza176

## EDUCATION

### Bachelor of Science in Computer Science and Software Engineering

Expected March 2020

University of Washington Bothell

GPA:

3.7

## TECHNICAL SKILLS

**Programming Languages:** Java (3+yrs), C++ (2+yrs), HTML/CSS (1yrs), JavaScript (.5yrs), Python (.5yrs)

**Tools:** Visual Studio, Git, IntelliJ, AWS Services, React, Jetty, Jersey, Jackson, Mockito, Eclipse, VS Code, PyCharm

**Technologies:** Windows, Linux, Mac

### Relevant Coursework:

- Data Structures and Algorithms
- Database Systems
- Cloud Computing
- Linear Algebra

## WORK EXPERIENCE

### Apptio Software Company. Bellevue, Washington

June - September 2019

#### Software Developer Intern

- Programmed in an Agile setting to design and implement a full-stack Notification System feature. on top of the company application to bridge the communication gap between customer and service providers.
- Built RESTful API endpoints in Java backend to catch requests for notifications from user application and collected notification information from DynamoDB via querying and returned data to frontend.
- Created front-end UI which used the backend API to make ajax calls to retrieve and use data about notifications to create an email-like front-end experience for the web UI.

## PROJECTS

### GeoInfo Web App

2019

- Created a Full-Stack weather app., which collects weather data from an API and manifests it into a map, allowing for the refreshing user experience of clicking on coordinates in a map and displaying the weather at that location.
- Implemented and deployed API endpoints to keep track of web app usage as well as most checked on locations by users using a combination of API gateway, AWS Lambda, CloudWatch alarms, DynamoDB, and S3.

### Bills Over Promises Web App

2019

- Created a Web App that collects U.S candidate voting information on Bills and compares it against a user's own bill interests via short questionnaire, to give a non-biased recommendation on candidates with similar intentions.
- Implemented Web App using Angular framework and firebase database storage to store candidate information which was retrieved from a political candidate bill voting information API.

### Movie Store Rental Project

2018

- Created a Movie Store rental program which took in files of customer information, movie inventory, and customer orders to do borrow and return transactions with the movie inventory; using C++.
- Analyzed requirements for program and designed a Software Specification document with the necessary classes, required methods, data structure incorporation, program-flow, and interaction between the components.
- Implemented the program as a group of two and used pair programming to debug code as well as Git and GitHub to assemble our individually built components and merge to create the complete system.

## EXTRACURRICULARS | LEADERSHIP

### Apptio Summer Hackathon

2019

- Designed and implemented a command line tool to monitor and report AWS Cloud spend for DynamoDB, S3, and EC2, on command line, for greater transparency of cost for immediate use of Cloud resources.

### Association for Computing Machinery (UW Bothell)

2018

- Cracking the Code Interviews: Collaborated with fellow students to solve common algorithm problems asked in coding interviews. Coded solutions using three different languages (C++, Python, Java).
- IOT crash course: Got hands-on with Arduino and used the C language to have them perform applications such as atmospheric temperature readings.

### University of Washington Bothell Hackathon

2018

- Spearheaded the backend Java design and implementation of a game bot on the telegram chat server and presented a prototype built within a 10-hour period (6 team members).