

Ali Mohamed

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Education

Eastern Michigan University

B.S., Computer Science, Minored in Mathematics GPA: 3.5

Ypsilanti, MI

Graduating: Dec. 2022

Skills

Programming Languages: Java, C, Python, JavaScript, C#, C++, Hibernate, JVM Assembly Language

Other Experience: SQL, REST API's, Spring Boot, Scrum and Agile Development, Atlassian tool suite, Dependency Injection, Junit, Mockito, Eclipse, IntelliJ, GIT Version Handling, Unix Command Line

Professional Experience and Responsibilities

Software Engineering Intern - Dynatrace

June 2022 – Aug 2022

- Built a GET endpoint that allowed for the searching of a database table for a known set of parameters
 - Ensured that the endpoint would reject invalid parameters and values for those with known types
 - Wrote a new method in a class that utilized dependency injection to ensure a consistent workflow and returned values for GET endpoints that will be written in the future
 - Constructed a query for the given parameters in Hibernate
- Modified the default contract given to customers signing up for Dynatrace through our Microsoft integration
 - Implemented the feature using Test Driven Development for the thirty requirements using Junit and Mockito testing frameworks
- Added development tools for our integration with Google Cloud Platform allowing for easier testing of the Dynatrace signup process
 - Ensured changes were only available in lower than production environments
 - Added Query Parameters to the signup form to allow for values that were usually POSTed to the webpage when it is loaded by GCP to be input by developer instead
 - Amended a contract between the UI and a Backend service to allow for new passed in values
 - Modified an asynchronous workflow to ensure that web service calls were not sent to GCP platform for accounts created using the development tools
- Traced and fixed a bug where a field was not being correctly saved to a database table then aided in the deployment of the fix to production

Store Manager - US Petroleum Inc.

2018 – 2019

- Managed a group of 5-7 employees with responsibilities including:
 - Hiring/Shift Management, Inventory Management and Sales Data Handling

Personal Experience

Thread Synchronization – Java

- Designed a multithreaded application simulating an assembly line operation (via Factory Design Pattern) while maintaining synchronization

Book Store Website – PHP/SQL

- Designed a website via PHP that allows user signup and book lookup/purchase by connecting to a relational database following database design principles and normalization

Capstone Project (Android Messaging App) – Android Studio/Java

- Worked with a team of 8 CS students to develop a mobile application while serving the following roles:
 - *Product Owner* – Refining user stories, establishing acceptance criteria, assigning members to tickets*
 - *Scrum Master* – Running daily stand ups, leading sprint retrospectives

Sudoku – Java

- Designed a user interface to display a Sudoku puzzle using Swing framework
- Developed an algorithm to generate random numbers to create a board based on difficulty selected while ensuring that only one solution exists

2D Pong & 2D UFO – C++/Unity

- Developed two video games using Unity and C++ event listeners based on key presses and onscreen elements

Tic-Tac-Toe – C

- Developed a command line tic-tac-toe game to be played against an AI bot