

Mustafa Ghulam Hussain

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Actively looking for an entry level software engineering position, where I can apply my problem-solving skills to real world applications and enhance my software engineering skills.

EDUCATION

Bachelor of Science: Computer Science George Mason University (2017 - 2021 Expected Graduation)

GPA: 3.69 - (Dean's List)

Curriculum Highlights:

Introduction to Computer Programming, Object Oriented Programming, Formal Methods and Models, Data Structures, Introduction to Low Level Programming, Computer Systems Programming, Data Mining, Introduction to Artificial Intelligence, Operating Systems, Software Engineering, Database Concepts, Web App Development, Computer Networking, Comparative Programming Languages.

SKILLS

Python, Java, C, JavaScript, Spring Boot, Flask, React, PostgreSQL, Oracle SQL Developer, Git, Docker, IntelliJ, Vim, Linux, HTML, CSS, Bootstrap.

EXPERIENCE

Software Engineering Intern | Pragmatics Inc

June 2020 - May 2021

- Utilizing spring framework to build restful web services following test driven development for a web forum application.
- Working with Apache Kafka streaming platform to produce and consume messages on Kafka queue for the Machine Learning model.
- Using Docker to build containerized services to run the application in local environment.

Undergraduate Teaching Assistant | Computer Science Department GMU

Jan 2019 - Dec 2019

- Assisted approximately 20 students in lab classes with Python and Object-Oriented Programming (JAVA) projects.
- Helped students debug their problems in an online class forum.

Document Imaging Specialist | Office of Student Financial Aid GMU

Jan 2018 – May 2021

- Working with student information system Banner by Ellucian and Oracle SQL Developer.
- Execute SQL Queries to pull out data from the student information database.
- Indexing documents under their proper tracking codes and provided document query customer service to students visiting the office.

PROJECT

Magic Hands (Python) - [GITHUB](#)

An image recognition machine learning model to accurately predict hand gestures particularly ASL sign language.

- Processed a labeled training data set of 87,000 images of American Sign Language Alphabets for training of machine learning models.
- Leveraged sklearn library to implement random forest classification, K-nearest neighbors and multilayer perceptron models and achieved a 90% accuracy.
- Researched about building and implementing a Convolutional Neural Network model for better predictions of images.

Book Review Web Application (Python) - [GITHUB](#)

A book review application built using the flask framework.

- Created a PostgreSQL database to store data about books, and their reviews.
- Implemented various GET and POST endpoints to retrieve and create data leveraging the flask framework.
- Made requests to Goodreads API, to obtain reviews and average ratings for a specific book.

Electronic Phone Book (Java) - [GITHUB](#)

A simple electronic phonebook program using Java Object-Oriented Programming.

- Used concepts of Object-Oriented-Programming (Abstraction, Encapsulation, Inheritance and Polymorphism) to construct Contact and Phone Book classes.
- Utilized Array List and Hash Map Data Structures from the Java Collection Framework to store contact information.
- Improved programs time complexity by implementing efficient algorithms like insertion sort and binary search.

ACTIVITIES

Member of Association of Computing Machinery GMU

Member of Squash Club at GMU