Abdul Bhutta

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Summary

A self-starter, ambitious, leadership quality, time management skills and goal-oriented **fourth-year** software engineer student with experience in designing, developing, testing, and maintaining IT infrastructures. A team-oriented student to produce quality work and meet strict deadlines under minimal supervision. Gained knowledge and experience throughout the years in university about algorithms, software architecture, software designs, and programming languages.

Education

Ontario Tech University - cGPA: 3.83
2020 - Present
Software Engineering - Bachelor of Engineering

Relevant Courses: Artificial Intelligence, Algorithms, Computer Networks, Data Structures, Database Management, Microprocessor, Operating Systems, Software Quality, Systems Programming, and Web programming.

Awards

Presidents List - Winter 2022
Presidents List - Fall 2021
Deans List - Fall 2020

Skills

Languages: C, C++, Java, PHP, HTML, CSS, JavaScript, Python
Software: MySQL, Shell, Bash, VI
Applications: Microsoft Office, Access, Outlook VNC, TeamViewer, Putty, RDP, Outlook, VNC
Routing Protocols: TCP/IP, FTP, SSH
Operating Systems: Windows 7/8/10, Ubuntu, Linux, Mac OSX
Data Structures and Algorithms: Array, Dictionary, Hashing, Linked List, Recursion, Trees, Sorting

Work Experience

IT Analyst
DCR System Group INC
September 2018 - August 2020

Collaborated with a senior software engineer to develop the internal applications used in the company. Some applications developed were Picking Order, Shipping verification, Cycle check, and Asset Information. Various Weekly/Monthly reports were sent to clients. Auditing assets and deploying different images for various systems. Created tickets using the company ticketing software for issues occurring for the assets while resolving the issue or escalating them to a higher level. Helped company recover $150,000 lost asset to $20,000 within 6 months with new guidelines and operations.

Academic Projects

Analyzing Toronto
Ontario Tech University
January 2022 – April 2022

Segmented Toronto's neighbourhood using geographical coordinates of each neighbourhood and found the ideal location to stay for newcomers/graduate students. Each **dataset** contained various information about Toronto such as total income, crime rate, and population in each neighbourhood. The data was stored in a **panda's data frame**. **Foursquare API** was used to get the closed venues (Police stations) to each neighbourhood. **K-means clustering** using **Python** was used to discover patterns/correlations between the different datasets. The clustering was divided into four sections (Not Ideal, less than Ideal location, Ideal location, Most Ideal) and visualized on a map, using **folium.**

Hangman CLI Version
Ontario Tech University
January 2022 – April 2022

An **agile** and **test-driven development (TDD)** approach was used to design and implement a CLI version of hangman. The application was designed using **Java** and each function in the application was tested using **JUnit**. **Static analysis** using **program slicing** was computed to debug the application to locate errors in the program. **Dynamic analysis** using **instrumentation probes** was applied at multiple endpoints in the source code while analyzing the average time it took each method to execute to reduce the time complexity of the application.

University Database Management System
Ontario Tech University
September 2021 - December 2021

An interactive user-friendly application to simulate a university environment for students/professors/registrar's office. The project was designed through the **Attribute-Driven Design** process, with multiple models implemented such as **UML class diagrams, UML sequence diagrams**, **Use case models** and **deployment diagrams**. The application was developed using **MySQL database**, **PHP**, **HTML**, **CSS**, and **Javascript**.

Medical Appointment Scheduler
Ontario Tech University
September 2020 - April 2021

An application designed for patients to experience a user-friendly design to book appointments for a medical office. Patients are able to search for the appropriate specialists and book their appointment through a web-based interface. The application was designed using **HTML**, **CSS**, **Javascrip**t, **PHP**, and **MySQL**.