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Gohur Ali

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Education

Bothell, WA **University of Washington** **Fall 2016-June 2020**

3.81 GPA Annual Dean's List 2016-2017; Annual Dean's List 2017-2018
B.S. in Computer Science & Software Engineering
Currently enrolled in: Hardware and Computer Organization, Analysis and Design
Past enrollments: Operating Systems, Database Systems, (Data Structures, Algorithms, and Discrete Math I & II), Space Operations & Systems Engineering, Software Engineering, Management Principles for Computing Professionals, Programming Issues with OOP Languages, Technical Writing for Computing Professionals

Projects

MySQL Vaccine Database **July 2018 – August 2018**

Designing and implementing a database with MySQL for tracking patient, hospital, staff, and vaccine data. Built Object Role Modeling and Logical Data Model diagrams to examine and design pertinent entities for the database. Created and designed a web application using HTML, CSS, and PHP to connect and display database data and allow for data manipulation.

File System in Java **July 2018 – August 2018**

Implemented a file system command processor based of the original file system in Unix. The user is able to format, create, modify, delete blocks, and delete files. It implements three primary data structures: bit-map to represent a disk, Inode list, and map of files on disk. Implements a simple command processor that parses command strings and redirects to the given command.

Shell Terminal for an Operating System Simulator **June 2018**

Implemented a simple shell for ThreadOS, which is an operating system simulator that is in the process of being fully implemented for CSS 430. The program can take multiple commands and parses commands using specific delimiters that definite the time at which the process should be run.

Dijkstra's Shortest Path on Old Republic Speedways **May 2018 - June 2018**

Created a graph based on planets from Star Wars in which ten ships act as transit and implemented Dijkstra's algorithms to find to find the shortest path to particular planets. Wrote a python script that created routes for the ten ships that visited various planets. Wrote bash shell scripts to test the program for accuracy.

File Compression/Decompression using Huffman Coding Algorithm **May 2018**

Implemented a priority queue that holds contents of a text file and creates a Huffman Tree. Using bit manipulation, created a symbol of coded symbols and wrote pertinent information for the encoded file. Implemented a decoder that recreated the original file using a personal implementation of a bit reader.

Experience

Macy's Fine Jewelry **June 2016-Current**

- Worked as a Fine Jewelry Consultant in the Fine Jewelry Department
- Learned about various intricacies of the jewelry business this includes product knowledge on precious stones, precious metals, and fine watches
- Managed an over a million-dollar inventory on a day to day basis
- Worked with customers on different levels
- Trained new associates within the department
- Improved to be more efficient in our inventory control process

Robot U Teacher's Assistant **2015-2016**

- Taught 4th Grade students the basics of programming in Lego Mindstorms EV3 Programming Software
- Analyzed and debugged code to aid student understanding of the fundamentals of visual programming
- Supervised and helped students who needed directions on building the robot
- Provided directions and assisted with the predefined project

Mars Electronics, Redmond, WA **2013-2015**

- Worked as mobile electronics technician
- Directly interacted with customers in diagnosing problems and issues with their electronics devices.
- Worked with senior technician to solve issues related to software and hardware in wide range of devices.
- Flashed mobile devices to the latest software
- Replaced broken screens and fixed issues related to charging ports and volume control

Languages & Systems

Advanced	Intermediate	Familiar
Java, C++, Python, Git	C#, Pygame, Linux, Bash Scripting, HTML, MySQL	C, CSS, JavaScript, PHP