

MOHAMMED ALZAFARANI

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Education

University of Alberta

Bachelor of Science in Computer Science

Sep. 2020 – Now

(on Dean's List) GPA : 3.7

Stony Brook University

Bachelor of Science in Computer Science

Aug. 2019 – May 2020

(on Dean's List) GPA : 4.0

Relevant Coursework

- Software Engineering
- Database Management
- Data Structures
- Algorithms
- Programming Methodologies
- Discrete Mathematics
- Computer Architecture

Technical Skills

Languages: Java (Proficient), Python (Familiar with), C, Sqlite , MongoDB

Developer Tools: VS Code, Eclipse, Android Studio, IntelliJ, PyCharm

Technologies: Linux, GitHub, Git, Firebase

Side Projects

Hobbies App [DESIGN] | *Java, Android Studio, Firebase*

May 2021

- Created an Android application that connects multiple people based on their common hobbies.
- Processed user inputted information in the back-end of the app to return the best possible match for the user.
- Utilized the layout editor to create a modern UI for the application in order to allow different scenes to interact with each other.

Train Booker GUI [DESIGN] | *Java, Eclipse, JavaFX*

January 2021

- Designed a modern train scheduler/booking system using Java to simulate the common functions of using a ticket vending machine.
- Used JavaFX to create a GUI that supports actions such as creating an account, search for trains, buy tickets, add money, etc.
- Introduced a Sqlite database to support the user and admin functionalities which enhanced the program running time by 12%.

Chess AI *Tkinter, Pygame*

February 2021

- Developed Chess game using Tkinter and Pygame, where you can play with a bot with 3 difficulties.
- Utilized Alpha-Beta Pruning by creating a minimax algorithm to improve the difficulty of the hard bot by 37%, which made the hard bot beat most chess players.

Team Projects

Comments Manager App [README] | *Python, MonogoDB*

October 2020

- Designed a MongoDb database using Python that keeps track of the users' posts, votes, and tags.
- Implemented an algorithm which improved the loading time of 3 json files of size 9GB by 83%.

Open Source Contributions

TheAlgorithms—Java

April 2021

CollegeConnect

May 2021

Soft Skills

Skills: Communication, Teamwork, Adaptability, Problem-Solving, Leadership, and Work Ethic.

Languages

Languages: English (Fluent), Arabic (Native),