MOHAMMED ALZAFARANI

✉ mohammefm@gmail.com in mohammed-alzafarani ⌗ mozafarani ☎ (825) 993-6166

EDUCATION

University of Alberta   **Sep. 2020 – Now**
B.S. Computer Science and Mathematics   *GPA : 3.8*

Stony Brook University   **Aug. 2019 – May 2020**
B.S. Computer Science   *GPA : 4.0*

EXPERIENCE

University of Alberta | Student Resume Generator   **Sept. - Dec 2022**
- Collaborated with a team to develop and launch an **open-source project** for student use and contribution.
- Involved in requirement gathering, analysis, design, estimation, and testing the frontend using **Jest**.
- Developed an algorithm to parse **JSON** file into an editable form, reducing time spent on data entry by 50%.
- Developed and published student resume python package on **GitHub**, providing an easier way for students to create resumes.
- Used: **ReactJS, FastAPI, OpenStack, Git, Docker, Jest**

PROJECTS

Habit Tracker Application: Coursework   **Sept. - Dec 2021**
- Built an **Android** application that lets users add habits and share their habit progress.
- Lead a team of 5: organized standup meetings, delegated tasks, enforced **Scrum** practices and principles.
- Implemented the entire login system to allow **CRUD** operations on the user list and user validation.
- Used **Firebase** for user authentication as well as storing users' habits, photos, and the locations of the habits.
- Used: **Java, JUnit, Firebase, Figma, Toggl**

Syllabuddy: Hackathon   **Sept. 2022**
- University of Alberta's Back to School Hackathon: **2nd** Place.
- Created a website utilizing **ReactJS** to convert syllabus due dates into a calendar file for users.
- Designed and configured backend using **Flask** instead of Django, contributing to an increasing efficiency of 17%.
- Increased project completion rate by 41% through the effective use of **XP** principle of pair programming.
- Used: **ReactJS, Flask, Postman, Lucid Chart**

Tram Booking System: Personal   **May 2021**
- Designed a modern tram scheduler/booking system to simulate a ticket vending machine in Alexandria, Egypt.
- Used **JavaFX** to create a GUI that supports actions searching for tram arrivals/departures, and buying tickets.
- Utilized **SQLite** database to enhance tram system's usability, allowing for improved admin functions.
- Verified system components for optimal user experience using **Swing API**.
- Used: **Java, JavaFX, Sqlite, Swing API**

SKILLS

Programming: Javascript, Java, Python, C++, C, Lisp.
Frameworks: ReactJS, Django, FastAPI, Node.js, Flask, JUnit.
Web & Database: HTML, CSS, Sqlite, MongoDB.
Tools: Git, Cybera, Docker, Firebase, Postman, VSCode, Nginx, Gunicorn.
Principles: Agile (Scrum), XP.
Soft Skills: Team Player, Work Ethic, Adaptability.

RELEVANT COURSEWORK

- Software Engineering
- Data Structures
- Practical Algorithms
- Relational Databases
- Computer Architecture
- Machine Learning