

Aly Mohamed

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Skills

- Python | React | C# | Java | JavaScript | C++ | C | RISC - V assembly | MIPS | MSSQL | NodeJs | Git
- Microsoft Azure, Sentinel, Ubuntu
- Microservices | Frontend | Backend | Full-Stack | English, Arabic

Education

Bachelor of Science and Engineering

University of Calgary

Calgary, AB, CA

09/2021 - Current

- Major in Software Engineering
- Minor in Biomedical Engineering

Projects

- **Honey Pot VM:** creating a virtual machine with no security parameters on microsoft azure and sentinel to lure in attacks and plot their IP address on a map.
- **Data Visualizer:** Designed and developed website that can visualize sorting algorithms and data structures
- **ASEC website:** Used React as well as third party programs to implement and informational website viewing events and supporting Sponsorships using eventbrite
- **Java GUI scheduler:** Developed a scheduler GUI using java to optimize feeding, and cleaning times for each animal depending on each animal's needs
- **Museum SQL database:** worked with a team to develop and SQL model of a museum using different relations between classes and linking it with python.
- **Data tree organizer:** Implemented a program that organizes nodes of a singly, doubly, Circular singly and Circular doubly Linked Lists
- **Weather app:** Created a javascript website to implement a simple weather app that links the API to a third party program to find the weather of any country or city
- **Obituary maker:** Created a website that allows users to create an obituary of anything by uploading the name and a photo, then linking it with chatGPT to write a random obituary and read it out loud to the user.

Experience

Vice President of Technologies

Alberta Student Energy Conference

Calgary, AB, CA

06/2023 - Current

- Implemented an informational website using **JavaScript, React**, CSS, AWS, and DynamoDB.
- Designed and developed systems that facilitate viewers to integrate their experiences with the website and contacts using third party APIs.
- Automated incoming sponsors and partners using third party systems.
- Completely automated the marketing platforms' user-experience testing process.

Director of Junior Design

Canadian Engineering Competition

Calgary, AB, CA

06/2023 - Current

- Responsible for the designing and implementing challenges to university level competitors in the form of competition prompt.
- Created and led testing of solutions provided over the conference by the competitors.
- Led the financial and logistical side of a 3 day competition to ensure smooth transitions between different Universities.
- Responsible for the organization of the Junior design competition in its entirety and testing different design solutions to insure quality standards are met.

Vice President of Academics

Schulich School of Engineering

Calgary, AB, CA

04/2023 - Current

- Responsible for heading a team of 3 called the webmasters for the creation of the Software and Electrical Engineering website using react, tailwind, AWS, and DynamoDB.
- Created multiple networking events between professors, industry professionals, and students.
- Represented students to the faculty from a fiscal and a course coordination side.
- Optimizing all Software and Electrical courses to ensure the feasibility of courses and all projects in said courses.

Lecturer

Schulich Ignite

Calgary, AB, CA

02/2023 - 06/2023

- Led a class of 30 students ranging from ages 16 to 38 teaching python from a basic level to designed complex games using pygames Libraries.

Teacher

NWIS

Calgary, AB, CA

06/2017 - Current

- Teaching the graduating class for 6 years ongoing, teaching Arabic, History, and Mathematics.

Relevant courses

- Practical Data Structures and Algorithms, Software Engineering Practices for Data Management, Object-Oriented Principles for Software Development, Full Stack Web Development