SAIF SHAHIN

Machine Learning @ McGill, Vice President of Events for McRun.

✉ saif.shahin@mail.mcgill.ca 🔗 linkedin.com/in/saif-shahin-4826b1210/

Education

McGill University   **Montreal, Quebec**

Bachelors of Engineering in Software Engineering, Minor in Applied Artificial Intelligence   *2020 - 2024*

- **Selected Graduate-Level Coursework:** ECSE 552- Deep Learning, COMP 550- NLP, COMP 551- Applied Machine Learning, COMP 579- Reinforcement Learning.
- **Selected Undergraduate Courses:** Computer Organization, Software Engineering Practice, Software Requirements Engineering, Algorithm Design, Functional Programming, Signals and Networks, Database Systems, Design Methods.
- **Awards:** MES Science Excellence Scholarship

Personal Projects

RecogniChess - https://github.com/WassimJabz/RecogniChess   **2023**

- An unsupervised domain adaptation approach to chess board annotation.
- We proved that Domain Adaptation is more accurate by 21.83% than alternatives.
- A report offering a complete explanation of the approach and the results achieved can be found here. Slides summarizing the essentials are displayed here.

Psychiatric Simulations   **Present**

- I am working on developing realistic VR simulations using Unity to simulate mental health conditions that have auditory and visual symptoms.
- My aim is to create a platform that would give medical students a deeper insight on mental health conditions than anything a textbook can provide.

Grocery Store System - Link   **2022**

- Developed a full-stack Android web-app for a grocery store owner in a team of 5 using the Agile development process.
- The app handles managing employees, store branches, owners, and allows users to place orders for delivery and pickup.
- We used Java, Vue, Javascript, Gherkin, and UML.

COMP 551 A3 - Link   **2022**

- My partner and I implemented a MLP from scratch, along with a CNN and RNN to classify image data from the MNIST dataset. After hyper-parameter tuning, we obtained a 98.1% accuracy with the CNN.

ClimbSafe - https://github.com/orgs/F2021-ECSE223/teams/p16/repositories   **2021**

- Full stack program I completed in a team of 6 employing Agile development.
- The app allows the client to easily manage climbing trips. The app handles Users can book hotels, equipment, and hire mountain guides. Admin can view what guides and equipment are hired. Guides can be assigned to users. Cancellations and refunds are also handled.
- We implemented the MVC (Model-View-Controller) design pattern, and used Java, Gherkin, UML, and JavaScript.

Experience

Earls Kitchen + Bar   **Penticton, Britsh Columbia**

Server   *May- August 2023*

- Fast-paced premium casual dining. Managed a team of food-runners and ensured customer satisfaction.

Dirty Dogs and Club Newhaūs 2   **Montreal, Quebec**

Server/ Bartender   *May 2022- January 2023*

- One of the highest tip- netting servers/bartenders across all branches.
- Fast-paced, challenging work environment due to the high quantity of customers and tables and large number of bussers to manage.

Languages and Miscellaneous

Technical Languages: C; C#; Java; UML; JavaFX; Python; HTML; CSS; Gherkin; Bash; VDHL; OCaml; ARM Assembly.

Human Languages: Fluent in English and Arabic

Misc.: VP Events of McRun (2023); Founder of Abu Dhabi Talks Philosophy (2020); Member of: McGill AI Society; GameDev McGill; HeforShe McGill