

Homayoun Elyasi

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Education

University of Toronto

Mississauga, ON

Honours in Bachelors of Science (H.Bsc), Computer Science Major and Economics Major

Awards

UTM Entrance Scholarship and University of Toronto Scholar program Scholarship

Awarded to students with distinguished academic records

Certifications

AWS Certified Cloud Practitioner CLF-C02

September 2023 - Present

Familiarized myself with commonly used AWS services and used them utilized them in my work

Projects

Personal Website | *HTML, CSS, JavaScript, React, AWS*

September 2023 – Present

- Built a Personal Website using **HTML**, **CSS** and the **React** library
- Designed smooth transition animations with the help of React and **JS libraries** such as **React Smooth Scroll**
- Made use of **EmailJS** to connect with employers
- Utilized **AWS EC2 services** to launch my website

DonkeyType | *Java, javafx*

November 2022 – December 2022

- Developed a typing speed and accuracy tester application with focus on **accessibility features** in a team of 4 people
- Applied several design patterns such as **Decorator**, **Iterator**, and **Observer** to help shape the structure of the application
- Contributed to the project by coding all the **UI panels** and **GUI elements** of the program using **javafx**
- Leveraged **Github** to give and receive code reviews from teammates as well as merge my contributions to the final product
- Designed **UML diagrams** to help elaborate on the relationships between different interfaces and models of the project

Tetris game | *Java, Javafx*

October 2022 – November 2022

- Programmed the game of Tetris using **Java**, **Javafx** and Object Oriented programming
- Made use of **abstract** and **concrete** interfaces and classes to design the connection between model and view classes
- Refactored the code in accordance with **SOLID design principles** for efficient and maintainable code
- Used **Javafx** to develop the **GUI**
- Enabled **saving** and **loading** features for the game

File Compressor and Decompressor | *Python*

January 2023 – February 2023

- Applied the **HuffmanTree** algorithm to build a file compressor and decompressor application
- Used efficient design patterns as well as algorithms such as **Binary Search** to compress and decompress any file **under 60 seconds**
- Implemented the **HuffmanTree** objects efficiently using **mergesort** algorithm, **recursion** and the **binary numeral system**

Mortgage loan advisor | *Python, numpy, matplotlib.pyplot*

August 2023 – September 2023

- Programmed a user interactive mortgage loan advisor program
- Developed this program so that it gets the necessary inputs from the user and calculates their payments for the future using the **numpy financial** library
- Displays tables and graphs using **matplotlib.pyplot** library to help users make financial decisions for the future

Technical Skills

Languages: Python, Java, HTML/CSS, JavaScript, SQL (MySQL), R, React, TypeScript

Developer Tools: Git, Github, VS Code, Visual Studio, PyCharm, IntelliJ, WebStorm, AWS

Libraries: NumPy, Matplotlib, JavaFx, pandas