

Alisina Abadi

COMPUTER SCIENCE UNDERGRAD

Brampton, ON

✉ alisina.abadi@mail.utoronto.ca | 🏠 aliabadi1.github.io | 📺 Aliabadi1 | 🌐 ali-abadi1

Summary

Third year computer science specialist student studying at the University Of Toronto. Highly motivated, collaborative and enthusiastic. Aiming to utilize my skills in software development, web development and algorithms to add value to your company.

Education

University of Toronto

HONOURS BACHELOR OF SCIENCE, COMPUTER SCIENCE SPECIALIST AND MATHEMATICS MINOR

Sept. 2019 - Current

- GPA: 3.63/4
- UofT Deans List of Scholars (2019-2020, 2020-2021)
- UofT MCSS Honour Roll(2019-2020)

Work Experience

University of Toronto

COMPUTER SCIENCE TEACHING ASSISTANT

August. 2021 - Current

- Teaching Assistant for CSC236 (Intro to Theory of Computation)
- Prepared and conducted tutorials for classes of 40+ students to elicit and build upon knowledge from their lectures
- Responsible for grading tests and assignments for course sizes of 550+ students

Projects

Show Recommendation Generator Web Application

JAVASCRIPT(REACTJS), PYTHON(DJANGO), SQLITE, HTML, CSS, BOOTSTRAP, GIT

- Created a responsive web application using a ReactJS front end and Django back end to create show recommendations from shows the user already enjoyed
- Utilized the Python BeautifulSoup library to scrap internet for 1000's of shows to potentially recommend to user and stored the data using SQLite
- Communicated between database and frontend by using Django REST library
- Employed Bootstrap to create user friendly interface

xModem File Transfer Server

C

- Utilized C to create a file transfer server between different computers both using the xModem file transfer protocol
- Directly transferred bytes between computers by opening sockets on both ends without blocking to simultaneously be able to transfer data from other computers
- Verified content of file transfer by using the CRC16 algorithm

Huffman Tree Compression/Decompression Application

PYTHON

- Leveraged Python to develop a file compression application by applying the Huffman lossless data compression algorithm
- Employed recursive binary tree algorithms on Huffman tree data to compress and decompress a variety of files(JPG, MP3, WAV, txt, BMP etc.)

Discord Bot

PYTHON

- Developed a discord bot using python that helps create better social environments for large discord groups
- Bot is capable of performing tasks like generating memes, keeping chats free of profanity, provide inspirational quotes, produce jokes etc.

Transit System Application

JAVA

- Developed a mock transit system application with a group using java that mimicked the functionality of a real transit app whilst using proper design patterns(MVC, Observer, Factory) where most applicable
- Utilized agile methodology and applied scrum process to efficiently organize and complete our work

Skills

Languages: Python, C, Java, Javascript, HTML, CSS

Frameworks: ReactJS, Vue.js, Django, React Native

Database: SQLite

Version Control: Git