

EMPLOYMENT

CAST SOFT

Research Developer

Toronto, ON

May 2018 to Aug. 2019

- Restricted Resource.h content IDs by 90%, then set up a greedy algorithm to go through viable program paths and log actions taken by identifying changes through OpenCV and numpy
- Helped with implementation of new features such as Rigging Points, Alpha Beam Shadows, NDI Video Sources, having involved updating UI and implementing various functions in a 3D space
- Worked on updating the code base from 32bit to 64bit and ensuring compatibility with other programs and consoles in the lights and design industry

ERA: EMERGENCY RESPONSE AID

App Developer

Toronto, ON

Jan. 2017 to Apr. 2017

- Created an emergency Android application that can help users get the response they need through their phone, with a simple to use interface made in Android Studio
- Developed with MongoDB to keep track of user information and logins using OAuth, custom database tables to ensure valid key access, APIMedic for medical information, and location tracking

EDUCATION

University of Toronto

2014 to 2019

- Honours Bachelors of Science - specialist in Computer Science, minor in Mathematics
- Coursework in: Operating Systems; Databases; Algorithms; Applications of Computer Science; Programming Languages; Computer Architecture; Programming organization; Web Programming
- Focus on Artificial Intelligence, Machine Learning, and Neural Networks

PROJECTS

FACIAL RECOGNITION PROGRAM

Using various machine learning methods such as linear regression and gradient descent, create a visual program that detects faces in a video file

MARVIN CHAT CLIENT

Web client that can hold basic conversation including arithmetic response type when connected to server, implementing profiling and server porting

OMNIFY

A python collaboration page using the Spotify API to parse your data and return profile statistics, using the merged Echo Nest

LANGUAGES

C | C# | C++ | SQL | CSS | Java | HTML | Python | Javascript | and more...

ADDITIONAL EXPERIENCES

Bilingual: Fluent in both Arabic and English

Agile Development: Stand up, scrum, waterfall, and more

International Baccalaureate: Completed the program with a total of 39/42 points