

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
- Using a RasPi and a USB hub, allowed techs to always have the latest images and documentation in a set of SSDs - ready and constantly updating through a local TCP exchange
- Tracked user information using Revulytics and logged information into a csv file, allowing identification of critical application areas and possible combinations

ERA: EMERGENCY RESPONSE AID

App Developer

Toronto, ON
Jan. 2017 to Apr. 2017

- Decreased time taken to contact emergency services and send along proper information by 19 seconds, by sending unique ID information as set by user and tracking latest pinged location
- Used MongoDB and custom database tables to keep track of user information, OAuth for login and to ensure valid key access, APIMedic for medical information

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 & FRAMEWORKS

C · C# · C++ · SQL · Java · 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 36/42 points