

Muhammad Ammar Raufi

www.ammarraufi.com

514-573-7293 | muhammad.raufi@mail.mcgill.ca

EDUCATION

McGill University

📍 Montreal, Canada

📅 Sep 2012 – Dec 2017

Bachelor of Engineering - Electrical Engineering;
Minor – Technological Entrepreneurship

RELEVANT WORK EXPERIENCE

Software Developer II

TekSystems

📍 Montreal, Canada

📅 Jan 2018 – Present

- Worked with the client, investment bank 'T. Row Price', to successfully migrate multiple large-scale 'on-premise' services from legacy Java to modern Spring Boot code in AWS
- Employed AI and Computer Vision to develop an office canteen system that had a completely 'humanless' checkout

Associate Software Developer

TekSystems

📍 Montreal, Canada

📅 May – Aug 2017

- As part of a large team, developed an interactive seat-plan application for an office of 300 employees using .Net for the backend and Angular 4 for the web

Software Developer Intern

Innoetics Text-To-Speech Solutions (Now acquired by Samsung)

📍 Athens, Greece

📅 May – Aug 2016

- Extended the C++ based Text-to-speech platform for the languages Urdu and Arabic, enabling the company to expand to many new international market

Test and Build Automation Intern

Autodesk

📍 Montreal, Canada

📅 Jan – Apr 2016

- Responsible for maintaining and improving the continuous integration pipeline to create source code deliveries in an environment of globally distributed design and development

TECHNICAL SKILLS / CERTIFICATIONS

Programming languages/frameworks: Java, Spring, C/C++/C#, .NET, Python, TensorFlow, Flask, JavaScript, Angular 2+

Certifications: AWS Certified Developer - Associate

Design software: Unity 3D, Autodesk Maya, Altera Quartus

ENGINEERING PROJECTS

Brain – Computer Interface

📅 Apr 2017

- Designed and developed a system that obtains EEG signal from users and, using various signal processing and machine learning techniques, classifies their mental states to drive a game built with Unity 3D

1st place – Computer Vision Kaggle Competition

📅 Apr 2017

- Achieved 94% accuracy in classifying between cats and dogs in images by using techniques like segmentation, Convolution Neural Networks and traditional classifiers

Brickbreaker Game using Altera DE1 board

📅 Dec 2016

- Implemented a digital system on the Altera DE1 board, using VHDL to define a circuit that drove a VGA Display to implement a version of the game "Brickbreaker"

Audio Recognition application (Beta phase)

📅 Dec 2016

- Developed an android application that converts speech over the telephone to text and presents it to the user
- Carried out usability testing on users with varying levels of deafness to ensure best possible User Experience

1st place – Robotic competition

📅 Mar 2014

- Led the team in programming a robot to complete tasks like navigation, obstacle avoidance and object capture

MANAGEMENT PROJECTS

Business Consultant

📅 Apr 2017

- Acted as a consultant to Pasini Research Lab at McGill University to develop a commercialization strategy for a patented product and pitched it to venture capitalists

Interview with Dollarama CFO

📅 Nov 2014

- Personally interviewed the CFO of Dollarama, Michael Ross and prepared a report on the background and strategic outlook of the company

'Kiwii' Smartphone application

📅 Dec 2014

- As part of a multidisciplinary team, developed a new product, a smartphone app 'KIWI' and presented the business plan to venture capitalists

VOLUNTEER WORK

Athens refugee camp

📅 Jun 2016

- Volunteered as a food distributor at a refugee camp

Academic volunteer

📅 Nov 2015

- Assisted nursing students in organizing workshops to increase awareness among the homeless about available resources