Muhammad Ammar Raufi

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EDUCATION

McGill University

📍 Montreal, Canada   📅 Sep 2012 – Dec 2017

Bachelor of Engineering - Electrical Engineering;
Minor – Technological Entrepreneurship

TECHNICAL SKILLS

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

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

RELEVANT WORK EXPERIENCE

Software Developer II
TekSystems

📍 Montreal, Canada   📅 Jan 2018 – Present

- Employed AI and Computer Vision to develop an office canteen system that had a completely 'humanless' checkout
- 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

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

Process Automation, Controls and Optimization Intern
Shell Canada

📍 Fort Saskatchewan, Canada   📅 Jan – Aug 2015

- Led a project to install a wireless communication / fire and gas detection system in a remote building

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 'KIWII' and presented the business plan to venture capitalists

VOLUNTEER WORK

Athens refugee camp   📅 Jun 2016

- Volunteered as a food distributer at the refugee camp

Academic volunteer   📅 Nov 2015

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