Michel Kassis

michelkassis.github.io
michel.kassis@mail.mcgill.ca | +1 5149635063

EDUCATION

MCGILL UNIVERSITY
B.Eng in Software Engineering
September 2015 - June 2021 |
Montréal, Canada

MORE PROJECTS AT

github.com/MichelKassis
linkedin/michel-kassis
itch.io/Michuscus
michelkassis.github.io

RELEVANT COURSES

UNDERGRADUATE
Computer Graphics Fundamentals
Algorithm Design
Operating Systems
Parallel Computing
Modern Computer Games
Applied Machine Learning
Intro to C++

CITIZENSHIP

Canadian
Egyptian

SKILLS

PROGRAMMING
C# (Unity3D) • Java
C++ (Unreal Engine, OpenGL)
Python • C • Swift
JavaScript (ReactJS, AngularJS)
OCaml • PL/SQL • LaTeX

LANGUAGES

Native/Advanced:
English • Arabic
Beginner:
French

GAME DEV PROJECTS

PERSONAL UNITY PROJECTS

- Random Maze Generator using Growing Trees Algorithm
- Custom Physics System in Unity using Verlet Integration
- Shopping Centre AI Agents Simulation
- GUP, a 2D iPad grappling hook adventure about a fish escaping toxic air
- TinyMMO, Multiplayer chatting Game on Web

EXPERIENCE

IFS OTTAWA | Full Stack Web Developer Coop
May 2017 - December 2017 | Ottawa, Canada

- Maintain features for Legacy Webapp using Java & JSP.
- Worked constantly with Databases using PL/SQL Developer.
- Developing Migration Plan with Architecture Team to Modern Webapp.
- Built new features for Modern Webapp using Javascript & Angular 1.0
- Experience Building REST APIs.
- Self taught ReactJS and Angular 2.0 in Learning Days.

TEAM WORK & LEADERSHIP

MCGILL ROBOTICS CLUB | Member in Graphical Simulation Team (2015) and Mars Rover Team (2016)
September 2015 - June 2017 | Montréal , Canada

- Using Gazebo to simulate our 3 robots, Mars & Rover & AUV Drone.
- Developing C++ physics plugins to fix issues in Gazebo to make simulations as accurate as possible.
- Experience in ROS, an operating system for the robots in McGill Robotics.

ROBOHACKS 2016 Founding Organizer - Technology Team Member
December 2015 - April 2016 | Montréal , Canada

- Responsible for buying Hackathon Hardware, contacting Sponsors.
- Awarded Forces Avenir Top Award in Science and Technology Category for the team showcasing leadership.

HACKMCGILL BOARD MEMBER - MCHACKS 2017 ORGANIZER
Purchasing Director
September 2016 - May 2017 | Montréal , Canada

- Purchasing Director for McHacks 2017
- Responsible for organizing weekly HackNights and tutorials.

PROJECTS

SCHEMATIC CIRCUIT SIMULATOR USING MACHINE LEARNING | McGill University Captstone Project
September 2018 - May 2019
Android application to simulate any circuit captured via mobile camera
Built Convolutional Neural Network model using Tensorflow to classify circuit elements.
Integrated OpenCV for Object Detection with Tesseract OCR to detect Hand-drawn text and symbols accurately.

COMPUTER GRAPHICS PROJECTS | Academic

- Built own Raytracer • Rasterisation, Realistic Lighting, shadows in OpenGL • GLSL Shaders • Subdivision using Catmull Clark

MACHINE LEARNING PROJECTS | Academic

- Implement Logistic Regression and LDA models • Built Reddit Comments Text Classifier using Naive Bayes • Data Processing
- Build Image Classification Model using CNN
- Authored a comparative study for Sentiment Classification using CNN