MICHAEL KWOK

✉ mkwok1@ualberta.ca   n30phyte   michael-kwok-2b82a8148   Edmonton, AB   587 937 5980

EDUCATION

BSc. Computer Engineering
University of Alberta

September 2017   Edmonton, AB, Canada

PROJECTS

BudgetPacman
19 Jan 2020   loravocado/BudgetPacman

- A project for HackED 2020 with the goal of making a version of tag that used a phone and GPS locations.
- Implemented a server using Socket.io and Typescript, learning both technologies overnight.
- Won best use of Google Cloud Platform APIs.
- **Technologies:** React Native, Typescript, JavaScript

github.io Webpage
Ongoing Project   n30phyte.github.io

- A playground for learning web technologies for single page applications.
- **Technologies:** Vue, HTML, CSS, JavaScript

AI Pong
28 November 2018   n30phyte/HackEDBeta2018

- First large scale team project in C++, using SFML to write a Pong clone to be controlled by a Python AI agent.
- Written during HackED Beta 2018, a hackathon hosted by the University of Alberta Computer Engineering Club.
- Experienced becoming a leader for a small project group,
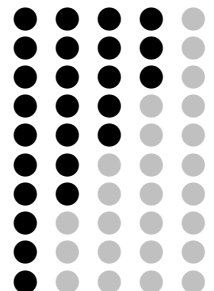- **Technologies:** C++, SFML, Python, Keras, TensorFlow

SpotifyThing
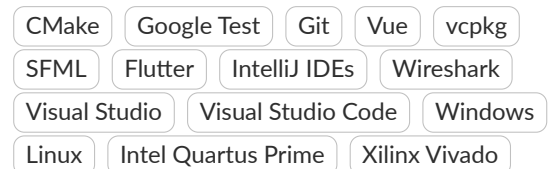2 January 2018   n30phyte/SpotifyThing

- Created a small script to automate the monotonous and repetitive task of turning Spotify playlists to CSV files.
- Gained experience in using RESTful Services.
- **Technologies:** C#, Spotify Web API

PROGRAMMING LANGUAGES

Language	Level
C++	● ● ● ● ○
Python	● ● ● ● ○
C#	● ● ● ● ○
LaTeX	● ● ● ● ○
Shell Scripting	● ● ● ○ ○
JavaScript	● ● ● ○ ○
TypeScript	● ● ○ ○ ○
Verilog	● ● ○ ○ ○
Matlab	● ● ○ ○ ○
VHDL	● ○ ○ ○ ○

TECHNOLOGIES & PROGRAMS

CMake   Google Test   Git   Vue   vcpkg
SFML   Flutter   IntelliJ IDEs   Wireshark
Visual Studio   Visual Studio Code   Windows
Linux   Intel Quartus Prime   Xilinx Vivado

VOLUNTEERING

VP Finance
Indonesian Students' Association Edmonton
PERMIKA Edmonton

January 2019 – Present

- Helped restart the chapter after 2 years of inactivity due to lack of manpower.
- Manage finances and budgeting for events and fundraisers.
- Successfully budgeted a fundraisers that allowed us to operate comfortably.
- Secured funding in the form of grants and sponsorships that allowed our group to grow.

Software Team Member
Autonomous Robotic Vehicle Project

May 2018 – December 2019

- Increased productivity by writing scripts that help automate various repetitive tasks, interfacing with Google App APIs, GitHub's API and simulation scripts for ROS in C++ and Python.
- Improved test coverage for robot's control systems by writing Google Test unit tests.
- Updated old and undocumented code to fix issues and add features.