

MICHAEL KWOK

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🔗 n30phyte

in Michael Kwok

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EDUCATION

BSc. Computer Engineering

University of Alberta

📅 September 2017

📍 Edmonton, AB, Canada

PROJECTS

KaiChiNDS

📅 Ongoing Project

🔗 n30phyte/KaiChiNDS

- > Emulator for Nintendo DS and Gameboy Advance consoles, with an emphasis on experimentation and learning.
- > Used as a scratchpad to learn how to write optimized, clean code in C++, utilization of STL to increase code reuse, application of Computer Architecture courses and graphics programming.
- > **Technologies:** C++, SFML, OpenGL, CMake,

Klutter

📅 Ongoing Project

🔗 n30phyte/Klutter

- > Inspired by SuperCook, an app to help planning meals over the week easier.
- > Written in Dart as a project to introduce myself to mobile app development.
- > **Technologies:** Flutter, Dart

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

C++

Python

C#

LaTeX

Shell Scripting

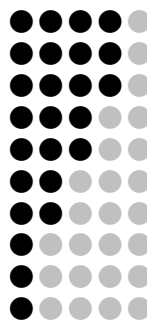
JavaScript

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 fundraiser that had a 50% return on investment.
- > 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.