

Michael Williams

Curriculum Vitae

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Education

2009–2012 **B Mechanical Engineering**, *McGill*, Montréal.

Changed Major to Software Engineering

2013–2016 **B Software Engineering**, *McGill*, Montréal.

Software Languages

Primary **C, Go, Python**

Proficient **C++, PHP, Java, sh**

Some **OCaml, JavaScript, Dart, VHDL, MIPS Assembly, Lua**
Experience

Experience

Vocational

2012– **PHP/Web Developer (Volunteer)**, *Otakuthon*, Montréal.

Assist in the back-end development of the Otakuthon website, primarily in PHP, along with aiding in some Java Script on the front-end and development of project management tools.

Competitions

2013 **McGill Big Data Hackathon**.

Create a system making use of the NoSQL Database Cassandra. Designed a system for predicting power usage for multiple locations, with the possibility of reusing a locations weather data.

- Team Size: 1
- Languages: Go
- Result: 2nd Place

2014 **McGill Code Jam.**

Create a system for identity verification using facial recognition.

- Team Size: 1
- Languages: C, C++ & bash
- Result: 2nd Place

Miscellaneous

2011–2014 **Tutor (Volunteer)**, *Share the Warmth*, Montréal.

Tutor High School students in Maths and Science.

2010–2015 **VP Website (Volunteer)**, *McGill Students' Anime Club*, Montréal.

Manage and Develop the club's website. In 2014 the title changed to VP Engineering to represent the shift to creating technological solutions for the club.

2015–2016 **President (Volunteer)**, *McGill Students' Anime Club*, Montréal.

Aid the execs of the club in their duties, and steer the club, maintaining an open and welcoming community.

Projects

Personal

mgwsoftware.com, *HTML*, *CSS*.

Provide a clean, professional profile, with basic information on myself, as well as contact details. Written in HTML and CSS, the aim is to avoid JavaScript in order to keep it light and easy for both humans and machines to read.

draringi.net, *HTML*, *CSS*, *JS*, *Go*.

A less formal website where I play around with HTML, CSS, SVG and JavaScript, experimenting with UI ideas and possible data to display. Front end is HTML, CSS, SVG and JavaScript. Replacing Python back-end with new Go back-end.

ZPDB, *C*.

The ZFS Powered Database (ZPDB) is an experimental DBMS looking at the relationship between a DBMS and the file-system it sits on top of. Where traditional DBMS consider the file-system a hindrance, ZPDB looks into how certain tasks can be off-loaded to ZFS.

Academic

Coin Wallet, *Java*, *Android*, <https://github.com/cwallet/coinwallet>.

Coin Wallet was done for the Software Engineering Practice course at McGill (ECSE 428). It acted as a Bitcoin wallet for Android phones, offering send and receiving of Bitcoins, generation of new addresses and showing current conversion rates with traditional currencies. It was developed using a variation of the Agile development framework Scrum.