

Manuel Dionne

2A Software Engineering – University of Waterloo
I can speak French and English.

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Skills

Fluent: Python, C, C#, HTML5, SQL **Intermediate:** PHP, C++, CSS **Learning:** JavaScript, node.js
GNU/Linux, Git, Github, Raspberry Pi, Visual Studio, SVN, Gimp, Ethereum

Relevant Experience

Automation Software Developer – *D+H (Now Finastra)* May 2017 – September 2017

- Created tools for automation of file generation and processing using C# and Selenium.
- Automation of transaction verification for Collateral Guard regression testing.

Freelance IT – *Digital Signage Setup* August 2016

- Installed Xibo digital signage software on a display server
- Programmed modules to expand the software's functionality

Personal Projects

SatTrak – *C#, Python, WF (Bronze – Canada-Wide Science Fair)* June 2014 – May 2015

- Software created to facilitate the tracking and acquisition of satellite downlink from Earth orbit. It is made for ham radio operators.
- Fetches TLE data from an online NORAD database and calculates the position of satellites to move a robotic antennae controlled by a Raspberry Pi.

VoteCDJ – *C#, PHP, MySQL, Javascript (Bronze – Canada-Wide Science Fair)* June 2015 – May 2016

- Voting system created for the student government at my school.
- Allows users to log-in through an online portal using their student ID. The entire user interface was made from scratch using HTML and CSS.

Bluetooth Messaging – *C#, WPF, 32feet.NET Bluetooth* December 2016

- Allows users to receive SMS on their Bluetooth equipped PC using the Message Access Protocol. It has a sleek UI, built entirely using XAML and WPF.
- Works on any phone that has Bluetooth and supports the MAP protocol.

Tiva Web Server – *C++, Python, HTML, CSS* November 2016

- Fully functioning web server for a Tiva C Series microcontroller that has an Orbit Boosterpack.
- Includes most functions from RFC 2616 (HTTP) like GET, POST, error codes, etc.
- Allows sending a POST to upload files to a built-in file system that utilizes the EEPROM.

Dorifto.racing – *PHP, Bash, HTML, CSS, ffmpeg* May 2017

- Initial D fan website dedicated to overlay music onto a video of choice using ffmpeg.
- Gets around 30 views per day with a total of 6,000 page views to date.

CoinZ – *Python, urwid, scikit-learn* June 2017 – Present

- Command-line UI and framework for running algorithmic trading bots on crypto currency exchange markets. Algorithms include: Simple MACD, ARIMA price predictor, etc.

Awards and Achievements

- Became a SHAD Fellow July 2016
- UNB Beaverbrook Scholar \$40,000 Recipient May 2016
- Bronze medal at the Canada-Wide Science Fair May 2016
- First place in the provincial Computer Programming Contest UCMCM May 2015
- International Summer School for Young Physicists Award – Perimeter Institute July 2015