

# 2A Software Engineering Student, University of Waterloo ID #20654054

Vhyu@uwaterloo.ca
Github.com/VictorHYu
Linkedin.com/in/VictorHYu
VictorHYu.github.io
Devpost.com/VictorHYu

## Skills

Languages (Proficient): C/C++, C#, Javascript (& jQuery), SQL, HTML/CSS

Languages (Familiar): Java, Ruby, Python

Tools: .NET Framework, Node.is, Rails, Flask, Microsoft SQL Server, PostgreSQL, Git, Bash, Heroku

Skills: Object-oriented programming, Data structures, Dynamic programming, Algorithms

# Work Experience

**Projects** 

& Github 🙉

website

See more on my

VictorHYu.github.io

### Firmwater Inc. - Full Stack Web Developer

May - August 2017

Firmwater is known for its web LMS, an online learning platform created for training companies

Co-op Work Term

- Implemented a new **video player** using Video.js to give clients a consistent and enhanced experience across all media platforms, with a wrapper for SCORM data reporting
- Enabled **course sequencing** under SCORM standards, which allows course administrators to define prerequisite course content to create a more consistent learner experience
- Wrote SQL stored procedures, designed new web views, and modified backend MVC
- Technologies used: C# (OOP), .NET Framework, Javascript, Microsoft SQL Server

### **Arrowonics** - Software Intern

August 2015

Arrowonics is the only group in Canada to create aerial light drone shows

- Adapted and translated code to test viability of a drone communication network
- Technologies used: C#, Arduino, XBee Communication Modules

### **Interware Systems** - Accounting Intern

July 2015

Interware Systems offers software services for cloud computing, health services, IT management, as well as Dell Hardware Solutions

- Designed a program that generated comparative balance sheets for ease of financial analysis
- Technologies used: Microsoft Excel with Visual Basic

#### Audio Visualizer

Eyehearasong.herokuapp.com

A web app that displays customizable visuals by analyzing the properties of music files

Personal Project

- Extracted data for FFT histograms, waveforms, and volume of music using Web Audio API
- Enabled file uploading with Express.js and File System (npm)
- Technologies used: Node.js, Express.js, Javascript, HTML, CSS, Heroku

#### Sofa Search - Hack The North 2017

Devpost.com/software/sofa-search

A machine learning web app that suggests sofas to users based on feedback ratings

Hackathon

- Created machine learning model with Keras, deep learning Python library
- Constructed backend supported by Flask, scraped sofa data from websites with BeautifulSoup
- Technologies used: Python, Flask, Keras + Theano, Javascript, HTML, CSS, Heroku

#### SelectEngine - 1st Place at EngHack Fall 2016

Devpost

A utility chrome extension that allows users to quickly search highlighted text across various websites

Hackathon

- Collaborated in a team to design and create a project with minimal prior experience
- Technologies used: HTML, CSS, Javascript

#### **Banana Farm**

Work in progress / 

Github

Personal Project

- Enabled real-time gameplay using WebSocket and ActionCable (Rails)
- Organized user data in databases with PostgreSQL and ActiveRecord (Rails)
- Retrieved weather data using requests on OpenWeatherMap API
- Technologies used: Ruby on Rails, PostgreSQL, Javascript, HTML, CSS

# Awards & Interests

**Second Place** at International DECA Conference - Virtual Business Challenge Hotel **2 Perfect Scores** on nation-wide mathematics competitions for high school students

Amateur photographer, music fanatic, and avid gamer Interest in mathematics and investing