

Stephen Hwang

3A HONOURS COMPUTER SCIENCE

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Skills

- **Languages:** JavaScript, MSSQL/T-SQL/SQL, Python, C, C++, DrRacket (Scheme)
- **Technologies:** Node.js, Express, SASS/SCSS, jQuery, Mocha, Chai, Sinon, Git

Experiences

Kenna Communications

Mississauga, Ontario

FULLSTACK DEVELOPER

Sept 2019 - Dec. 2019

- Developed internal web applications for **Fortune Global 200** client, BASF, with focus on speed and scalability
- Implemented single sign on service using **Passport**, **Node.js**, and **Express.js** greatly reducing users' time spent logging in
- Established first unit tests company-wide using **Mocha**, **Chai**, **Sinon**, and **Proxyquire** setting a new precedent going forward
- Created **100+** BDD unit tests that runs in **less than 300ms** to increase developer productivity and ensure stability of releases

Kenna Communications

Mississauga, Ontario

SOFTWARE DEVELOPER

Jan 2019 - Apr. 2019

- Completely redesigned CMS application using **CSS**, **HTML**, and **jQuery** ensuring responsiveness of application
- Developed complex SQL queries for very large data sets to filter and retrieve data within a timely manner using **SQL Server**
- Created SQL procedures to update/post/merge large amounts of data to sync with legacy systems
- Effectively communicated with accounts teams to detail specifications and exact needs so as to ensure high satisfaction from client

Projects

York University Badminton Club Website

yorkubadminton.com

JAVASCRIPT, HTML, CSS

January 2020 -

- Commissioned to make sleek and cost-effective club website for the York University Badminton Club
- Designed with a focus on **responsiveness**, and ease of use to deliver information quickly and effectively
- Utilized Markdown editor library to allow admins to edit page contents without knowledge of HTML/CSS

Sorcery Card Game

C++

November 2018

- Developed a variant of popular online card game, "Hearthstone," using object-oriented principles in **C++**
- Implemented design patterns such as **Decorator** and **Factory** to ensure scalability and ease in developing new features
- Employed common C++ practices such as exception safety and class abstraction to allow flexible changes to the program

Multi-Tasking Game

PYTHON, HTML5, CSS3, BOOTSTRAP

March 2018

- Created a 'multi-tasking' game, where the user plays four different mini-games at the same time
- Used **Python** and **Pygame** to program the mechanics and graphics of the game
- Utilized **HTML**, **CSS**, **Bootstrap** to create mobile-friendly and aesthetically pleasing landing page
- Won **"Best Tech"** award at StarterHacks 2018

Education

University of Waterloo

Waterloo, Ontario

CANDIDATE FOR BACHELOR OF COMPUTER SCIENCE, HONOURS

Sep. 2017 - Exp. April 2022

Activities & Interests

- **Interests:** Super Smash Bros. (Ultimate), Cooking, Hiking, Snowboarding
- **Clubs:** Muay Thai, Badminton, UW Hip-Hop