Harry Zhang
Computer Engineer

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EXPERIENCE

Full Stack Developer
TobyX

09/2018 – Present   *Waterloo, Ontario*

TobyX is a hotel solution digitizing aging hotel infrastructure, tobyx.io

- Created a Facebook messenger bot system, allowing our clients to have a more modern and robust way to communicate with their guests
- Made with AWS Lambda (Node.js) allowing for reduced operating costs, easy maintenance, and a serverless architecture

Web Developer
Don Mills C.I. Library

09/2017 – 06/2018   *Toronto, Ontario*

- Created SchedMgr, an online application that simplifies and increases the workflow of school librarians by digitizing how volunteer hours are tracked and awarded
- Made with MySQL, PHP, JS and utilizes AJAX calls to the backend API to allow for lag-free transactions

Software Developer
Waterloop

09/2018 – Present   *Waterloo, Ontario*

- Created the logging infrastructure for the central control unit, enabling the team to have persistent data collection over multiple runs on all attached sensors
- Made with SQLite3 and C++ allowing for lower profile design while still maintaining easy maintenance and accessibility

AWARDS AND ACHIEVEMENTS

WorldSkills 2019 Team Canada Prospect
Selected as a candidate to represent Team Canada in the upcoming WorldSkills 2019 competition in Kazan, Russia for Web Development

Gold Medalist - Skills Canada
Two time Gold Medalist in Web Design and Development, from Skills Canada 2018 in Edmonton and Skills Canada 2018 in Winnipeg

Top Ranking Secondary Competitor - Skills Ontario
Achieved the highest score in the Technology Sector across all secondary competitors in Canada's largest skilled trade and technology competition

Colonel Hugh Heasley Engineering Scholarship
Recipient of scholarship awarding outstanding students entering first-year studies in the Faculty of Engineering at the University of Waterloo

EDUCATION

Candidate for BASc Computer Engineering
University of Waterloo

09/2018 – 06/2023   *3.2 GPA*

PROGRAMMING LANGUAGES

`JavaScript` `C/C++` `Java` `PHP`
`HTML/CSS` `SQL` `C#`

PROJECTS

Continuum
Hack the North

09/2018

- Continuum is a 2D puzzle game set in a 3D world
- Created by only rendering a 2D cross-section of the world, where the player controls their 3D rotation and movement in the z-axis
- Made with C#, Unity3D, and HLSL, and recognized as winners in Canada's largest hackathon

LaFi
MasseyHacks III

04/2017

- LaFi is a data transmission device built with C++ and a pair of Raspberry Pi's that rapidly blink lasers to transfer binary data over the air
- Finished 1st Place in Canada's largest MLH high school hackathon

IdeaShare
Hack the North

09/2016

- IdeaShare is an online platform for idea distribution
- Submissions go through a Java backend powered by TextRazor and Google's Natural Language Processing API's assigning a tag cloud to each idea
- Recognized as Top 12 Winners by a panel of industry-leading judges

TECHNICAL SKILLS

`Linux` `Docker` `Git` `Raspberry Pi`
`API Development` `Server Administration`
`AWS Lambda, API Gateway, and Cloudwatch`