Harry Zhang

Software Developer

\(\) 647-620-1866

zharry.ca

github.com/zharry

Skills

Languages

Javascript, C++, Java, PHP

Tehnologies

Node.js, React.js, HTML/CSS, AJAX MySQL, Linux, Git, Docker, Unity3D

Volunteering

Gift Card Bank

https://www.giftcardbank.org/

- Lead team of 5 backend developers
- Created backend API using Node.js, MongoDB, and deployed with GitLab CI/CD to AWS Elastic Beanstalk

SheHacks Mentor

https://shehacks.ca/

- Assisted over 25 hackers at Canada's largest 24 hr all-female hackathon
- Helped groups troubleshoot problems with Google Cloud API, Ubisoft Hackers Nest API, UiPath API,
 Python, Javascript, and Java

Awards

Ubisoft Next 2020 Finalist WorldSkills 2019 Competition Skills Canada 2018 Gold Medalist Skills Canada 2017 Gold Medalist

Hackathons

TreeHacks 2020 Gold Medalist Hack the North 2019 Winner Hack the North 2018 Winner MasseyHacks III Gold Medalist Hack the North 2016 Winner

Education

University of Waterloo

Computer Engineering, BASc Candidate

09/2018 - 06/2023

 Colonel Hugh Heasley Scholarship (\$10k) awarded to 4 students yearly

Experience

Windows Core Software Developer | AMD

January - April 2020

- Worked on the Kernel Mode Driver (KMD) team to deliver bug fixes, updates, and features to the AMD Unified Graphics driver
- Interfaced with **Microsoft Display Driver Interface** (DDI) and the AMD Display Layer Abstraction (DAL) interface in **C++**
- Optimized stack usage in specific scenarios by 40-60%,
- Fixed bugs affecting the Radeon Overlay and Display Output Post-Processing

Software Developer | IBM

May - August 2019

- Maintained and updated IBM's Risk and Compliance Management website,
 OpenPages, using JavaScript, Sass, React.js, MobX, and Java
- Independently developed a **new React component** end-to-end
- Conducted code reviews with other developers and collaborated with QA and design teams bringing several other features and over 50+ bug fixes

Web Technologies Competitor | WorldSkills International

May 2018 - August 2019

- Represented Team Canada at the 45th International WorldSkills Competition
- Competed against 32 of the world's best web developers
- Used a mobile-first approach to mock up 3 websites in Photoshop and CSS
- Created 2 REST API backends (in PHP and Laravel), 2 games (in JavaScript), and 2 full-stack websites (using Nginx, MySQL, JavaScript and PHP)

Projects

Neutral | Carbon Footprint Extension

https://shopneutral.io/

- Created a cross-browser extension that allows consumers to better understand carbon emissions of their online purchases and ways to offset it
- Won the Moonshot (1st Place) Prize at TreeHacks 2020
- Awarded \$12.5k as a part of Mozilla's Fix-The-Internet Incubator
- Sole developer for backend API, powered by Strapi CMS (Node.js) and co-developer of extension created using Javascript and WebExtensions API
- Set up requied services with a Digital Ocean Server and DNS routing, along with **Docker** containers for MySQL, Nginx, and LetsEncrypt for SSL

Unbounded | Virtual Reality Game

- Won at Hack the North 2019 (Top 12 Winners)
- Built a 'non-euclidean' virtual reality (Oculus Rift) game using **Unity3D** and **C#**, unrestricting the player's virtual world from the limits of the physical world

Listen Up | Personal Assistant

- Created an **Machine Learning** app, with Node.js and React.js to help individuals and businesses extract information from conversations in realtime
- Powered by GCP's Natural Language API and Azure's Text Analytics SDK

Orbit | C++ Game

- Developed a two-player shooter game in a full **n-body newtonian physics simulation**, made in **Visual Studio** using the **Ubisoft Next Competition API**
- Applied OOP Design Patterns such as Singleton, Strategy, and Observer