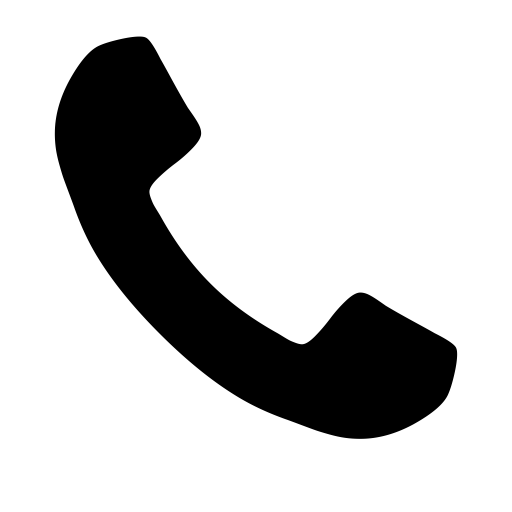
**Ryan Zhang**

 [https://github.com/CatMachina d](https://github.com/CatMachina%20%20%20%20%20%20%20%20%20%20d)y5zhang@uwaterloo.ca +1 (647) 774 – 1738

Logo, icon

Description automatically generatedWebsite Icon Vector Art, Icons, and Graphics for Free Download

<https://catmachina.github.io/> [www.linkedin.com/in/Ryan-DY-Zhang](http://www.linkedin.com/in/Ryan-DY-Zhang)

**Skills**

**Languages:** C++, JavaScript, TypeScript, HTML5, CSS, PHP

**Frameworks / Tools:** React.js, SQL, Ruby on Rails, Git, Jenkins, Docker, Kubernetes, Google Cloud Suite

**Other:**

* Knowledge in graph theory, dynamic programming, and network flow algorithms
* Experience with data structures such as range trees, balanced binary search trees, and tries

**Experience**

**Software Engineering Intern** – VerticalScope Inc. Jan 2022 – Apr 2022

* Shipped frontend and backend features using **HTML**, **CSS**, **JS/JQuery**, and **PHP**, serving 100 million+ users
* Used **Google Cloud Suite** to run diagnostic queries on **SQL** databases and to help company track OKRs
* Created on-demand environments with **Jenkins** and tested them to improve workflow and decrease bugs
* Hosted **Agile** meetings to lead discussions, contribute ideas, and improve team productivity and dynamic
* Managed containerized applications using **Docker** and **Kubernetes** to test, debug, and improve live sites
* Worked with **Git** to provide work in a timely manner and participated in code reviews to supply better code

**Founding Frontend Engineer** – Stadium Jun 2021 – Aug 2021

* Created components with **React**, **TypeScript**, and Material-UI for a fully functioning website for clients
* Implemented **RESTFUL API** through **Ruby on Rails** with **PostgreSQL** to create a booking service for clients
* Performed **unit**, **integration**, and **end-to-end tests** and solved errors to serve a higher quality product
* Developed 50+ **user stories** according to client and user specifications for precise and enhanced UX/UI

**Projects**

**Personal Website** – WebsiteMar 2022 – Present

* Created a lightweight website using **HTML**, **CSS**, and **JS/JQuery** to display portfolio with pleasing aesthetics
* Minimized images through **CLI** to decrease site load time and navigation by a few seconds

**Trivia Bingo** – C++ Windows Application Feb 2021

* Followed **software development process** to develop, test, share, and improve a partner trivia bingo game
* Worked with external graphical library **SFML** and created own assets to provide user a graphical interface
* Developed game engine and logic using **C++** and **OOP** principles to create quality, reusable code

**Education**

**University of Waterloo** – Bachelor of Computer Science Class of 2020 – 2025

**Relevant Coursework:**

* Elementary Algorithm Design and Data Abstraction (Advanced)
* Object-Oriented Software Development
* Data Structures and Data Management
* Computer Organization and Design