

# Rui Chen

<http://ruichen.ca/>

Email : [ruicwork@gmail.com](mailto:ruicwork@gmail.com)

Mobile : (+1)289-707-2986

## PROGRAMMING SKILLS

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**Languages:** Java, C, JavaScript, HTML, CSS, Racket, Python, SQL

**Frameworks:** React.js, Flask

**Developer Tools:** Github, Eclipse, Firebase, Visual Studio Code, Figma, OpenCV, Dlib **Other:** Adobe Photoshop, Adobe Premier Pro

## ABOUT

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### Career Objective

*A little bit about me*

- Grounded and solution orientated Computer Science student who thrives working in a team-based environment.
- Seeking a role where I can grow and learn from experienced team members while drawing from soft and technical skills that I have already successfully executed.

## EXPERIENCE

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### Web Design @ Local Clients

*React.js, Figma, Firebase, JavaScript, HTML, CSS*

- Designed and developed unique webpages for restaurants in the Waterloo area using a wide range of components for a digital menu and website experience for customers.
- Designed multiple templates using Figma for clients to choose from and tailored individual components of each page to match restaurant brand and identity, ensuring a cohesive product and satisfied clientele.

## PROJECTS

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### Average Face Generator | *Python, OpenCV, Dlib, Flask, HTML, CSS*

Try: [Average Face Generator](#)

- Developed a program that takes in pictures of different faces in .jpg format and generates a face based on the average of those consumed.
- Utilizes OpenCV and Dlib in Python to detect 68 facial landmarks and uses similarity transform to create the new average face.
- Developed a user-friendly interface through Python, Flask, and HTML to create a streamlined experience for users.

### Personal Portfolio | *React, HTML, JavaScript, CSS*

Try: [Personal Portfolio](#)

- Developed a personal website using React to showcase side projects and some information about me.
- Features an intuitive, responsive user interface that displays the important takeaways of a typical portfolio website in an eye-catching manner.

### BEDMAS Calculator | *Java, JavaFX*

- Developed a program in Java that calculates user-input strings according to BEDMAS and features scientific calculator features such as memory and inverse.
- Able to handle all BEDMAS operations (addition, multiplication, subtraction, division, and brackets) in any given input.
- Implemented the program into a responsive interface that consumes the user's input and produces the calculated outcome through JavaFX.

### Tic Tac Toe AI | *Java, JavaFX*

- Built a Tic Tac Toe game using Java and JavaFX that allows you to play with another player, an easy AI, or a master AI.
- Developed the master AI using the fundamentals of game theory, specifically the minimax algorithm, to ensure that the AI would always choose the most optimal move available in a given gamestate.

## EDUCATION

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### **University of Waterloo**

Waterloo, ON

*Bachelors of Computer Science (CO-OP)*

*Expected May 2027*

- Relevant Courses: Designing Functional Programs, Elementary Algorithm Design and Data Abstraction

## AWARDS

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- Dr. Frank J. Hayden Secondary School 2022 Graduating Class - Computer Science Achievement Award (1 of 1).