Rui Chen

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EDUCATION

University of Waterloo   GPA: 3.98
Candidate for Bachelors of Computer Science (CO-OP)   *Expected May 2027*
- Relevant Courses: Object-Oriented Software Development, Data Structures and Data Management, Designing Functional Programs, Elementary Algorithm Design and Data Abstraction

SUMMARY OF QUALIFICATION

Languages: C++, Java, C, JavaScript, Python, Racket, HTML, CSS, SQL, Bash
Frameworks: React.js, Flask
Developer Tools: Git, Postman, Maven, Firebase, Google Cloud, Figma, OpenCV, MySQL

EXPERIENCE

AGF Investments Inc.   May 2023 — August 2023
Web Developer   *Toronto, ON*
- Independently researched, designed, and implemented a functional prototype of an **Email integration** feature with **Java** and **Pega** that handles up to **40,000** client emails per month for the existing document intake software.
- **Collaborated** with different teams, department heads, and managers during the creation of the Email integration feature by performing **technical demos** and communicating the **business requirements** of the implementations.
- Traced down and implemented solutions to **non-reproducable bugs** on the production environment that would have impacted **thousands** of clients during the annual peak of September.
- Developed the framework for **automated regression testing** and implemented sanity tests to save **15** hours in testing for the QA department on each deployment patch.

Waterloo Clients   September 2022 — November 2022
Web Developer   *Waterloo, ON*
- Effectively worked in a team to develop websites for local restaurants using **React**, **JavaScript**, and **CSS**.
- Responsible for designing multiple templates using **Figma** for clients to choose from and tailored individual components of each page to match restaurant brand and identity. Practiced customer service to understand clientele needs to ensure an exemplary product.

PROJECTS

WealthShrimple | *Java, Spring Boot, Maven, MySQL, Oauth2, React, JavaScript, CSS*   Try: WealthShrimple
- Created a mock investment website that allows the user to experience an authentic stock market simulation.
- Developed a **back-end** built with **Java**, **Spring Boot**, and **MySQL** that manages user accounts and their respective stock inventory. Each call incorporates the appropriate **error handling** to ensure each public method is **transactional** for the case of calls with invalid data.
- Utilized **API calls** to perform real-time queries of any NASDAQ stock's price to be used whenever it is to be bought or sold by the user.
- Designed and implemented a **front-end** built with **React**, **JavaScript**, and **CSS** that features a dynamic graph showcasing the user's portfolio, smooth searching for stocks, and an **Oauth2** login for Google accounts.

Average Face Generator | *Python, OpenCV, Dlib, Flask, HTML, CSS*   Try: Average Face Generator
- Developed a **Python** program that takes in pictures of different faces and uses **machine learning** to generate a new face based on the average appearance that of those consumed.
- Utilizes **OpenCV** and **Dlib** to detect **68** facial landmarks and uses **triangulation** and **similarity transform** to create the new average face with those landmarks.
- Integrated the program into a responsive user-friendly interface through **Python**, **CSS**, **Flask**, and **HTML**, creating a streamlined interface for users.