## Ernest Chiu Computer Science

@ EctChiu@uwaterloo.ca in linkedin.com/in/ErnestChiu2023

github.com/ErnestChiu2023



## TECHNICAL SKILLS

Java, JavaScript, JSX, C#, PHP, CSS3, HTML5, C Languages

> Tools ReactJS, ReduxJS, AxiosJS, NodeJS, ExpressJS, MongoDB, Github/Git

Others Functional Programming, Object Oriented Programming

IDE Microsoft Visual Studio, Eclipse, Atom

Operating systems MacOS, Windows



## PROJECTS

#### January 2019 February 2019

### Everyday App

- > Developed an app for managing daily tasks and information using React
- > Implemented a weather app that utilized live data through Axios. is to make a HTTP request
- > Reduced the response time between pages by utilizing the react router to dynamically route components
- Constructed a task manager that controlled and stored tasks in state and passed information to functional components through prop drilling

JavaScript React React Router JSX CSS3 HTML5 Axios.js

### January 2018 February 2018

#### Ominio

### > Designed and implemented an Uno-style multiplayer card game in Java using Eclipse

- > Implemented multiple Object-Oriented Programming aspects such as: inheritance, encapsulation and polymorphism to create the cards and deck
- > Designed an interactive website that endorsed the game using HTML5, PHP and CSS3

Java HTML5 PHP CSS3 OOP

## February 2019

### March 2019

#### Accomplishly

- > Developed a to do app with CRUD functionality using Node and Express.js
- > Data persistence achieved through mongooose and body-parser to store data in MongoDB

JavaScript Node.js Express.js MongoDB EJS



#### PROFESSIONAL EXPERIENCE

## June 2014

# July 2017

#### Camp Counsellor, ROBOTICS CAMP

- > Instructed and supervised over 50 children while teaching basic engineering fundamental through building and programming autonomous robots
- > Organized tournaments for over 30 competing teams to test their skills in robotics

### March 2017 May 2018

#### Lifeguard, WHITCHURCH-STOUFFVILLE LEISURE CENTRE

- > Supervised up to 150 swimmers by actively communicating with colleagues and enforcing patrons to follow pool guidelines in a professional manner
- > Dedicated over 50 hours of training to calmly and swiftly handle high pressure situations such as: spinals, concussions, and other severe injuries



### **EXTRACURRICULARS**

## September 2015

## Student Council, Stouffville District Secondary School

- April 2018
- > Managed logistics for over 20 events (semi-formal, charity events, prom, etc.) alongside 10 council members
- > Volunteered over 300 hours to support school events and committees by overseeing council expenses and creating a student council website



#### **EDUCATION**

### September 2018 April 2023

## University of Waterloo, BACHELOR OF COMPUTER SCIENCE

- > Awarded President's Scholarship of Distinction with a 98% average
  - > Relevant Coursework: Designing Functional Programs, Elementary Algorithm Design and Data Abstraction