# Zihe Zhang

# **Experience**

## Full Stack Developer | Ontario Digital Service

Jan 2020 - April 2020 | Kitchener, ON

- Developed 3 new pages for the province of <u>Ontario's COVID-19</u> <u>data</u> visualization microsite with 450,000 + views per month using React, Apex Charts and Node.js
- Built a map displaying coronavirus cases in schools across Ontario with Leaflet.js and GeoJSON data
- Created time filtering functionality for all graphs and tables based on high demand from user and stakeholder interviews
- Refactored over 100 components and implemented Storybook.js to improve extensibility and maintainability

## Full Stack Developer | Rivvi

May 2020 - Aug 2020 | Toronto, ON

- Designed and developed an online ordering platform UI from ground up using Figma and React
- Authored a sign-up form using React and Google Sheets API for new clients. Deployed through AWS Amplify Console
- Architected fuzzy search bar as well as business sorting and filtering functionalities for online ordering platform using fuse.js
- Refactored SQL database and created Node.js API endpoints to host and process data
- Increased the search engine results from page 4 to top Google result by implementing SEO strategies such as developing meta tags, schema markups and adding relevant links to the website

## **Engineering Assistant | Manying Consulting**

May 2019 - Aug 2019 | Toronto, ON

- Edited AutoCAD drawings per engineer markup
- Prepared, updated, and organised engineering and administration files such as transmittals and comment response sheets
- Coordinated and generated reports for business expenses

## **Vice President | Thornhill Election Committee**

May 2018 - Jun 2019 | Thornhill, ON

 Built an automated online voting system through Google forms and Google sheets, decreasing time to process votes by 6 hours

- ⋈ zihe.zhang@uwaterloo.ca
- github.com/zihezhang
- in linkedin.com/in/zihe-zhang

## **Skills**

## Languages

JavaScript, C++, C, Python, Java, HTML, CSS/SCSS, TypeScript, SQL, Bash

#### Frameworks & Tools

React, Node.js, Google Cloud Platform, Firebase, AWS, MySQL, Git, Figma

# **Projects**

## **Sudoku Solver - Python**

 Built a backtracking algorithm that efficiently solves puzzles of varied difficulty

### Mario Poker – Java, Photoshop

- Created a simplified Mario themed poker game using Java, and objectoriented programming
- Designed custom game sprites with Photoshop

## Caesar Cipher - C++

- Constructed a Caesar Cipher encoder and decoder using C++
- Applied bit-shift and bitwise operators to encrypt text
- Used pointers and references to efficiently allocate, manage, and store memory

## **Education**

## **University of Waterloo**

Bachelor of Applied Science in Computer Engineering Sep 2019 - April 2024 (Expected)

**Relevant Courses:** Data Structures and Algorithms, Systems Programming and Concurrency, Digital Computers