# **Carl Zhang**

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### Skills

Software (Java | C++ | React | HTML | JS | CSS | SQL | Python (Django) | .NET | Power Automate | UiPath | JavaFx |)

**Technologies** (Git | JIRA | Postman | SharePoint)

### **Professional Experience**

### May 2021 - Aug 2021 Toronto (Remote), Canada

### **Top Hat Monocle,** Full Stack Developer

- Maintained and developed on a portion of Top Hat's main web application
- Implemented front-end React architecture to match design, functionality, and accessibility
- Created/updated Django REST Framework API endpoints for new features
- Created/updated unit tests with Jest/Django to enforce code standards

## Sep 2020 - Dec 2020 Mississauga (Remote), Canada

### Ricoh Canada, Application Developer

- Developed .NET web applications using ASP.NET MVC Framework
- Managed data from incoming business orders using **SQL** Server Management Studio
- Migrated retiring **SharePoint Designer** 2010 workflows to **Power Automate** flows
- Updated Power Automate COVID-19 survey process, to notify upper management/offices of employees coming to office

### Jan 2020 - Apr 2020 Ottawa, Canada

### **Transport Canada**, Software Developer

- Designed Robotic Process Automation (RPA) processes in **UiPath** and **BluePrism**
- Created **RPA** processes to streamline the manual processing of incoming application data forms
- Applied new Optical Character Recognition (OCR) technologies on: QR Codes, Driver's Licenses, Government application forms

#### **Projects**

#### **CarlZWeb**

• React portfolio website: carlzweb.vercel.app

2019

2021

### **Z-Hanz**

- Developed a device to convert speech into handwritten text using Raspberry Pi 3B and Python
- Used stepper motors and servo motors to control CNC plotter
- Applied the SpeechRecognition 3.8.1 Python library

#### 2018

### Type To The Future

- Worked in a pair to develop a JavaFx application designed to improve typing quality
- Designed a comfortable UI with Scene Builder and CSS
- Programmed several minigames to improve user engagement
- Web scraped online statistics to compare with user typing statistics

#### 2017

#### Z-Craft 🗗

- 2D Aircraft Shoot'em Up Game created with Java on Eclipse IDE
- Applied Java 2D Graphics, Listeners for visually stunning animations
- File I/O for storing highscores and login information

### Education

### 2019 - 2024 Waterloo, Canada

### University of Waterloo, B.ASc / Computer Engineering / 2B

#### Relevant Coursework:

- ECE 150: Fundamentals of Programming
- ECE 250: Algorithms and Data Structures (100%)