

Janice Zhu

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Education

Bachelor of Engineering (B.Eng.): Software Engineering

Sept 2020 - May 2025

Toronto Metropolitan University

Relevant Coursework: Object-Oriented Programming, Data Structures and Algorithms, Operating Systems

Languages and Technologies

- Python, C, Java, JavaScript, SQL, HTML, CSS, XML, YAML, Bash, VBA
- React.js, Django REST, Java Servlet, JavaFX, JUnit
- Google Cloud, Kubernetes, Docker, Git, MySQL, Visual Studio Code, Microsoft Suite

Academic and Personal Projects

Personal website: www.janicezhu.com (for additional information and projects)

Art Supply Store | 2024

- Developed microservices that allow users to browse items and manage an online cart.
- Implemented a JWT Token based authentication that keeps a user logged in while using services.
- Built docker containers to deploy the services on a Kubernetes cluster.
- Enabled pub/sub messaging between services through KubeMQ event channels to synchronize databases.
- Utilized: Java Servlet's, REST API's, Cloud Services, Tomcat, SQL

Music Controller Web Application | 2023 – 2024

- Developed a web application using the Django REST Framework and React.js for groups of users to create/join rooms that enables controls on the music playing from the host.
- Designed REST backend server enabling room data to be stored persistently in an online database.
- Integrated the Spotify API enabling users to view and control the music playing from their Spotify account.
- Utilized: React, Python, REST API's

Robot Maze Navigation Program | 2023

- Developed and implemented a program for a robot that can find its way through a maze by reading data off the sensor signals and bumper switches
- Added a self-steering system that periodically adjusts the robot to the center of the path in a maze
- Utilized: Assembly Language, HCS12 microcontroller

Movie Store Database | 2022

- Developed a database system for a movie store that enables user account information and movie data to be stored persistently in an online database.
- Designed an ER Diagram to visualize the data requirements and business rules for the system.
- Implemented a Unix Shell Menu enabling a connection with the Oracle Database to manage and query SQL tables.
- Utilized: Unix-Shell Scripting, Oracle Database, SQL

Bookstore Application | 2021

- Collaborated in a 4-person team to develop a GUI application for a bookstore to manage, store, and list books
- Utilized: JavaFX, JUnit