# Janice Zhu

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## Education

**Bachelor of Engineering (B.Eng.):** *Software Engineering*                                        **Sept 2020 - May 2025**
Toronto Metropolitan University

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

## Languages and Technologies

- Java, Python, JavaScript, Shell, HTML/CSS, XML, YAML, C, SQL, VBA
- React.js, Servlet, JSP, JUnit, JavaFX, Django
- Google Cloud, Kubernetes, Docker, Git, MySQL, Oracle Database, VS Code, Microsoft Suite

## Academic and Personal Projects

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

### 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

### Art Supply Store | 2024
- Developed the frontend using Java Servlet's and JSP's that allows users to browse items and manage a cart.
- Implemented a JWT (JSON Web Token) based authentication that keeps a user logged in while using services.
- Built docker containers to deploy the services on a Kubernetes cluster in the Google Cloud.
- Enabled pub/sub messaging between services through KubeMQ event store channels to synchronize databases.
- Utilized: REST API's, CRUD operations, Cloud Services, Microservice Architecture, JDBC, Maven, MySQL

### Movie Store Database | 2022
- Collaborated in a team of three to develop a management 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

### Prediction Systems | 2023
- Developed a system that trains on a dataset to generate movie recommendations for users.
- Added a gender prediction system that classifies the gender of a person based on given test data.
- Utilized: Machine Learning, Decision Trees, Python