

# Roy (Zhexuan) Li

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## EDUCATION

University of Toronto - St.George

Toronto, Canada

BSc in Honours Computer Science

June 2024

- **Relevant Courses:** Data Structure and Algorithm, Computer Networks, Database System, Compiler and Interpreter, Artificial Intelligence, Operating System.

## EXPERIENCE

Veeva Systems

Toronto, Canada

QA Engineer

May 2022 - Sept. 2023

- Developed **over 100 automation tests** using **Java Cucumber**, increased the test coverage by **15%**.
- Streamlined daily triaged runs and failure reporting using **Kibana**, ensured consistency of newly developed code, reduced regression issues by **20%**, and maintained high code quality.
- Collaborated with a cross-functional team in an **Agile/Scrum** environment, engaging in iterative development and improvement with **Jira** and version control system **Gitlab**.
- Facilitated efficient **CI/CD** deployments using **Jenkins**, improved deployment frequency by **15%**.

Renxin Technology Group

Fujian, China

Software Engineer

Mar. 2021 - Aug. 2021

- Implemented **Python** scripts to automate the extraction of daily newspaper data from various websites using **Selenium** WebDriver, increasing data collection efficiency by **40%** and ensuring timely, accurate updates.
- Optimized data by utilizing **Pandas** library for data processing and seamlessly importing datasets into the database using **Navicat** DBMS, improved data accuracy and reducing import time by **30%**.
- Diagnosed and resolved complex software bugs by conducting in-depth debugging sessions and implementing effective solutions, led to a **40%** reduction in issue resolution time and enhancing system stability.

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, SQL, C/C++, C#, TypeScript, HTML, CSS

**Frameworks/Libraries:** React, SpringBoot, Cucumber, Node.js, Selenium, Maven

**Data/Tools:** Linux, Git, Gitlab, Jira, AWS EC2, VS Code, PostgreSQL, MongoDB

**Other Skills:** OOP, Design Patterns, Software Development Life Cycle, REST API, HTTP, JSON

## PROJECTS

Mock Database System

Jan. 2024 - Apr. 2024

- Built a key-value store database system in **C++** with an **LSM Tree** storage structure.
- Adapted cutting-edge query optimization techniques such as Hash Buffer Pool design, Bloom Filter, and B-tree data structure. Achieved significant reduction in query time by **40%**.
- Designed and tested the performance in **Python** and **Shell**, visualized result in graphics using **Matplotlib**.

Frontier College Reading App

Jan. 2022 - May. 2022

- Delivered enhanced functionality for Frontier College's reading app by developing and integrating new features using **Java**, improved user engagement and expanding the app's educational capabilities.
- Utilized **Spring Boot** framework and **JDBC** driver to construct project structure and database interaction.
- Deployed **AWS EC2** instance and implemented a **REST API** to handle user metadata management, enhanced the data security and scalability. Led to a **20%** reduction in user-related support issues.

Learning Path Website

Sept. 2021 - Dec. 2021

- Designed and Developed a learning path website as a team utilizing **React**, **Node.js** and **CSS**.
- Managed and manipulated client data using **MongoDB**, ensured data safety and reliability through comprehensive database management practices. Improved data integrity and reduced data loss incidents by **25%**.

Conference System Software

Sept. 2020 - Dec. 2020

- Collaborated with a team to design and develop a conference management system, adhering to the **SDLC**, **OOP** and **Design Patterns** in **Java**. Applied good coding practices to ensure code reusability and maintainability.
- Specialized in engineering the **entity layer** and **user interface (UI)** using **Java** and **JavaFX**. Constructed efficient data models and defined relationships between other layers.