

# Roy (Zhexuan) Li

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## EDUCATION

University of Toronto - St.George

Toronto, Canada

*Honours Bachelor of Science - Specialist in Computer Science*

*June 2024*

- **Relevant Courses with high GPA:** Data Structure and Algorithm, Parallel Programming, Computer Networks, Computer Graphics, Database System, Compiler and Interpreter, Artificial Intelligence, Operating System.

## EXPERIENCE

Veeva Systems

*QA Engineer*

*May 2022 - Aug. 2023*

- Developed **over 100 automation tests** using **Java Cucumber**, enhanced test coverage and software quality.
- Automated daily triaged runs using **Kibana**, ensuring performance and saving significant team's work time.
- Collaborated with developers to debug critical issues, improving application stability and performance.
- Played a key role in managing product issues, conducting regression testing, and facilitating **Jenkins** deployments.

Fujian Renxin Technology Group

*Data Engineer*

*Mar. 2021 - Jul. 2021*

- Executed daily automation with **Python**, ensuring productivity, data infrastructure, and data validity.
- Developed Python scripts to streamline daily workflow, saving approximately **4 hours per day**.

## TECHNICAL SKILLS

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

**Frameworks:** React, SpringBoot, PostgreSQL, Cucumber, Node.js, MongoDB, NumPy, Selenium, Maven

**Platform/Tools:** Linux, Git, Gitlab, Jira, AWS, Ubuntu WSL, VS Code, Postman

**Other Skills:** OOP, Design Patterns, Software Development Cycle, Network Principles, SSH, RESTful API

## PROJECTS

Mock Database System

*Jan. 2024 - Apr. 2024*

- Developed a key-value stored database system with **LSM Tree** storage structure with **C++**.
- Using cutting-edge technologies such as Buffer Pool, Bloom Filter, and B-tree structure, optimized query cost.
- Test and analyse the performances with Python, **Shell** and **Matplotlib**, make the result visible and significant.

Computer Graphic Tools for Image Processing

*Jan. 2024 - Apr. 2024*

- Implemented image processing tools for **image morphing, inpainting, and PatchMatch algorithms** using Python with **NumPy** and **OpenCV** libraries.
- Enabling advanced image manipulation and editing capabilities, and improving the efficiency and accuracy of image processing tasks.

Frontier College Reading App

*Jan. 2022 - May. 2022*

- Developed backend features for Frontier College's reading app in a team using **Java**.
- Using **Spring Boot** framework and **JDBC** driver to build the interaction between frontend and backend.
- Built and tested interactions between frontend and backend using **RESTful API** and **Postman**.
- Using **AWS EC2** instance for backend deployment.

Learning Path Website

*Sept. 2021 - Dec. 2021*

- Developed a website that provides multiple learning paths with **React** and **Node.js** for server side.
- Stored and manipulated client data using **MongoDB**, ensuring data safety and reliability through robust database management practices.

Conference System Software

*Sept. 2020 - Dec. 2020*

- Designed and developed a conference system using **Java** and **JavaFX**.
- Functionalities include dashboard, sign-up system, messaging, and event management.
- Mainly responsible for the **entity layer** implementation using **OOP** and **design patterns**.

## CERTIFICATES

- Certificate of Distinction in Canadian Senior Mathematics Contest in year or 2017