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