Rose Lin

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Summary of Qualifications

Languages: Java, Python, C++, C, SQL, HTML/CSS, JavaScript/TypeScript, Bash
Technologies/Frameworks: Spring, Hibernate, Maven, Node.js, Apache Tomcat, Robot Framework, Selenium
Tools/Methodologies: PostgreSQL, Google Cloud Platform, Git, Jenkins

Work Experience

Software Developer **Kanata, ON**
Martello Technologies | Mitel Performance Analytics Development Team Sept 2021 - Ongoing

- Developed well-structured and scalable features using **Java/J2EE** technologies with **Spring frameworks** and integration with relational databases using **Hibernate**.
- Built and maintained UI components with **JavaScript/TypeScript**, and **HTML/CSS** to enhance user experience.
- Created **SQL** scripts to update new/existing database values and reduce the time needed for manual input.
- Implemented unit test cases using **JUnit** to ensure the continued quality and security of core company products.
- Applied knowledge of networking protocols such as **SNMP** to create features to monitor the performance of devices.

Software Engineer in Test **Cambridge, ON**
Telus Health | Medesync Team Jan 2021 - May 2021

- Incorporated a **Python** script to aggregate **XML** test results into a stylized excel sheet and to email to team members, resulting in a **ROI of 3200%/year** based on the reduction of time needed to manually interpret data.
- Reduced runtime of nightly **Jenkins** builds by **20%** through the removal of code smells, various logical enhancements, and overall optimization of existing test suites.
- Implemented new automation frameworks and test suites using **Selenium**, **Python**, and **Robot Framework** to assist in the quality verification of the Medesync EMR system.
- Explored ways to optimize and simplify automated testing through new frameworks and methodologies.

QA Analyst **Toronto, ON**
Newtopia | QA Automation Team May 2020 - Aug 2020

- Implemented new mobile and web automation frameworks using **Selenium**, **Appium**, and **Java** for crucial company platforms such as the registration portal and mobile app.
- Designed and developed test scripts for company **Salesforce** platforms to increase the reliability of products.
- Reduced functional, regression, and integration testing times by **90%** through test automation.
- Led manual testing for a newly implemented internal platform that allowed company employees to organize meetings and access client data.

Projects

Pinpoint | *Python, PyGame, Google Cloud Vision API* **StarterHacks**

- Constructed an educational application that allows users identify various objects from live photos.
- Utilized **Python** and the **Google Cloud Vision API** to relay and interpret user input.
- Created a robust GUI through **PyGame** to facilitate front-end user interactions with the application.

Doodle | *Java, JavaFX, Sockets* **Personal Project**

- Designed an entertaining multiplayer game through the use of **Java** and **JavaFX**.
- Established a computer to computer connection through the use of using client-server networking and **sockets**.
- Used **JavaFX** and **Object-oriented programming (OOP)** practices to create an organized GUI that supports actions/elements such drawing, guessing, randomized word banks, timers, and the submission of user input.

Personal Website | *HTML, CSS, JavaScript* **Personal Project**

- Created an interactive personal website showcasing skills, interests, and projects.
- Leveraged **HTML** and **CSS** to implement the layout and content of the website with additional animations written in **JavaScript**.

Education

University of Waterloo | GPA 3.9 **Waterloo, ON**
Candidate for Bachelor of Applied Science, 2B Computer Engineering Sept 2019 - Apr 2024 (expected)

- Achievements: Dean's Honours List, University of Waterloo President's Scholarship for academic distinction.
- Relevant Courses: Data Structures and Algorithms, Digital Systems, Embedded Microprocessor Systems, Systems Program and Concurrency, Discrete Math and Logic.