Rose Lin

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Summary of Qualifications

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

Education

University of Waterloo | GPA 3.7   **Waterloo, ON**
Candidate for Bachelor of Applied Science, 3A 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, Systems Program and Concurrency, Real-Time Operating Systems

Work Experience

Software Developer   **Kanata, ON**
Martello Technologies | Mitel Performance Analytics Development Team   Sept 2021 - Dec 2021
- Engineered and maintained components for a Microsoft-recommended network diagnostic platform.
- Developed well-structured and scalable features for over **10,000** customers using **Java/J2EE** technologies with **Spring frameworks** and integrated relational databases using **Hibernate**.
- Aggregated privileged revenue-critical data with **SQL** and internal tools, progressing major business negotiations.
- Elevated user experience through building robust UI components with **JavaScript**, **TypeScript**, and **HTML/CSS**.
- 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
- Architected scripts to ensure the scalability and sustainability of a large scale electronic medical records project.
- 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.

QA Analyst   **Toronto, ON**
Newtopia | QA Automation Team   May 2020 - Aug 2020
- Spearheaded automation and developed internal tools for a disease prevention company serving over 10,000 customers.
- 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.

Projects

Pinpoint | *Python, PyGame, Google Cloud Vision API*   **Hackathon**
- 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.

Fizz-Buzz Alexa Skill | *Node.js, AWS*   **Personal Project**
- Explored the **AWS** and Amazon Alexa development environment by implementing a Fizz-Buzz Alexa Skill
- Leveraged **AWS Lambda** and the ASK SDK for **Node.js** to develop a bulletproof interface, providing seamless interaction between Alexa and user.

Doodle | *Java, JavaFX, Sockets*   **Personal Project**
- Designed an entertaining multiplayer Pictionary replica, through the use of **Java**.
- Established a computer to computer connection using client-server networking and **sockets**.
- Used **JavaFX** and Object-Oriented Programming practices to create an organized GUI that supports features such drawing, guessing, randomized word banks, timers, and the submission of user input.