

Rose Lin

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Summary of Qualifications

Languages: Python, Java, JavaScript, TypeScript, Kotlin, C++, C, SQL, Bash, HTML/CSS

Technologies/Frameworks: Node.js, Spring, React, Redux, Plotly, Selenium

Tools/Methodologies: Kubernetes, Docker, AWS, GCP, DynamoDB, PostgreSQL, Git

Education

University of Waterloo | GPA 3.8

Waterloo, ON

Candidate for Bachelor of Applied Science, 4B Computer Engineering

Sept 2019 - Apr 2024 (expected)

- Achievements: Dean's Honours List, University of Waterloo President's Scholarship for academic distinction
- Relevant Courses: Software Architecture, Database Systems, Data Structures and Algorithms

Work Experience

Software Engineer

San Mateo, California

Verkada | Search and Computer Vision Team

Sept 2023 - Present

- Facilitated a high-impact project for a unicorn enterprise security system start-up, serving over **20,000** customers.
- Designed and executed an initiative to aggregate disparate identity concepts, simplifying identity feature development and ensuring a unified approach to identity management across the organization.
- Engineered highly scalable API endpoints using **Python**, to streamline and support the integration of identity aggregation across multiple teams.
- Optimized **Elasticsearch** queries for improved data retrieval, enhancing data processing efficiency by **20%**.
- Redesigned and enhanced email-based alerting for face and license plate recognition events.
- Engineered sophisticated **React/Redux** features, empowering users to create and manage unified identities with ease.

Software Engineer

Toronto, Ontario

Zynga | Analytics Platform Engineering

Jan 2023 - Apr 2023

- Elevated and supported a business-critical analytics platform for a multi-billion dollar entertainment company.
- Implemented a **Splunk** monitoring and alert system to track the status of **Celery workers** of an internal **Jupyter Notebook** editor, enabling proactive response and increasing bug fix time by **30%**.
- Researched and architected an auth system for a budget optimization tool, protecting highly sensitive revenue data using **Plotly Dash**, **Python**, and **JavaScript**.
- Revamped the routing system for the analytics **React/Redux** application, offering a smoother user experience.
- Supported the development of core back-end functionalities and database integration with **Spring** and **Java**.

Software Engineer

New York City, New York

Nuvalence | Common Designer Platform Team

May 2022 - Aug 2022

- Contributed in a consulting capacity, to the development of an application creation platform for a major human capital management company, allowing clients to create highly scalable applications with elevated efficacy and minimal code.
- Orchestrated the construction of a feature flag dashboard project that enhanced the development experience of both software engineering teams and platform users, using **DynamoDB** and **Node.js**.
- Designed and implemented modular and reusable **RESTful APIs** with **JavaScript/TypeScript**, to service requests and facilitate communication between the **CRUD** application and DynamoDB client.

Software Developer

Kanata, Ontario

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.

Software Engineer in Test

Cambridge, Ontario

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, increasing efficiency by **30%** with the reduction of time needed to manually interpret data.

Projects

BLOCK | *React, Node.js, C++, PostgreSQL*

Capstone Project

- Created a distributed locker booking/management system, integrating a hardware lock component with a web platform.

Munchbox | *Kotlin, Firebase, Stripe*

Course Project

- Developed an Android app facilitating meal arrangements at reduced costs, connecting students with local restaurants.