

Roseak Lin

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Education

Western University

September 2021 - May 2026

BSc, Specialization in Computer Science (3.9/4.0 GPA)

London, ON

Relevant Coursework: Distributed Systems, Data Structures and Algorithms, Computer Networks, Computer Organization and Architecture, Object Oriented Design and Analysis, Operating Systems

Professional Experience

Software Developer Intern

May 2024 – August 2025

J.D Power

London, ON

- Maintained Spring Boot microservices handling over 2 million daily requests, achieving **99.9% service availability**
- Spearheaded service and library changes for a Cassandra 3 to 4 migration, contributing to a **2x throughput increase**
- Developed Java production hotfix scripts to correct data inconsistencies in Cassandra-backed microservices, **updating more than 400k records** and restoring data integrity
- Engineered a **Java JUnit test suite** for an internal code generation tool, integrating it into GitLab CI/CD to gate builds across 20+ projects
- Led **development of IntelliJ and Gradle plugins** to automate documentation and in-line comment generation

Web Developer Intern

May 2022 – July 2022

Sinai Foundation Canada

Mississauga, ON

- Consolidated duplicated UI patterns into reusable React components and centralized content logic, **reducing total frontend codebase size by 15%**
- Implemented **responsive styling and accessibility improvements across 20+ components**, enhancing cross-device usability and UI consistency
- Leveraged react-snap for pre-rendering to **improve SEO and achieve full content indexability**

Projects

Spotishare | JavaScript, React, Node, ExpressJS, SCSS, Socket.io, Bootstrap, Git

- Built a Spotify-synced music party app supporting **real-time chat** and **playback syncing for 10+ users**, reducing latency via socket-based architecture
- Created responsive layouts with CSS media queries and Bootstrap, **improving usability and accessibility** across mobile and desktop platforms.
- Implemented **Spotify OAuth 2.0 authentication** flow, managing access and refresh tokens to securely **integrate the Spotify Web Playback SDK and Web API**

High-Performance Photography Showcase | TypeScript, React, Vite, Hono, CSS, Cloudflare Workers

- Engineered a responsive gallery SPA using **Vite and React**, implementing intersection-observer-based lazy loading and cursor-based pagination to maintain 60FPS scrolling across large-scale image collections
- Architected a global media delivery pipeline leveraging **Cloudflare R2 and Hono** at the edge, reducing Time to First Byte (TTFB) for high-resolution assets by offloading image retrieval to the nearest edge node

Technical Skills

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

Frameworks, Libraries, and Technologies: React, NextJS, Node, Bootstrap, Express, Socket.io, Java Spring, MongoDB, Cassandra, mySQL

Developer Tools: Git, GitHub, GitLab CICD, Jira, Kubernetes, Jenkins, Docker, Postman, Maven, Cloudflare