JESSICA LU

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EDUCATION

University of Waterloo   2022 – 2027
- **Double Major**: Statistics & Computational Mathematics, **Minor**: Computer Science
- **Relevant Coursework**: Data Types and Structures, Elementary Algorithm Design and Data Abstraction, Tools and Techniques for Software Development, Designing Functional Programs
- AWS Certified Cloud Practitioner Certification – Amazon Web Services, (Expected Completion: April 2024)
- Google Foundations of User Experience (UX) Design Certification – Google, (Expected Completion: July 2024)

WORK EXPERIENCE

QA Automation Developer Co-op | *Java, Selenium, TestNG, Azure, BrowserStack*   January 2024 – April 2024
Onlia Insurance (A Fairfax Company) — Web Department
- Developing test scripts in **Java** with **Selenium** and **TestNG** to validate functionality and uphold business rules
- Engineering an **Azure Pipeline** to automate test execution through **BrowserStack** to implement the CI/CD process
- Scripting in **Bash** to create automated backups of Excel sheets to ensure consistent data integrity
- Operating in a fast-paced **Scrum** environment with **Jira** for dynamic project development

Application Developer Co-op | *Java, Spring Boot, SQL, Angular, Docker*   May 2023 – August 2023
CIBC — Capital Markets, Equity Markets and Data Services Department
- Developed an object-oriented data processing solution in **Java** with **Spring Boot**, Spring Batch, Spring Integration, and Spring Data JPA to facilitate file transfers with Bloomberg data from SFTP to database
- Engaged with established **Swagger**-based RESTful API endpoints for efficient job invocation
- Updated and deployed business design changes with **Angular** and **Docker**
- Utilised **SQL** to analyse 50,000+ data records for extensive testing and error checking
- Enriched financial security database tables with **JDBC** by implementing data validation for duplicate entries

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PROJECTS

Spotify Music Recommendation App | *JavaScript, Vue.js, SQL, OAuth 2.0*   September 2023 – Present
- Developing a music recommendation algorithm using **JavaScript** and **Spotify API** to curate music suggestions based on user listening history
- Incorporating a **MySQL** database to store and handle user preferences and listening history
- Implementing **OAuth 2.0** with an hourly token refresh mechanism to ensure uninterrupted prolonged use
- Constructing a user-intuitive front-end with **Vue.js** to optimise user experience

Portfolio Website | *HTML, CSS, JavaScript, Figma*   December 2022 – Present
- Building a personal website from scratch with **HTML** and **CSS** to showcase creative work and endeavours
- Enhancing website accessibility by implementing responsive design techniques and adhering to UX guidelines

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SKILLS

- **Programming Languages:** Java, C, SQL, Python, JavaScript
- **Technologies:** Spring Boot, Selenium, JDBC, HTML, CSS, Angular, Vue.js
- **Tools & Infra:** Azure, BrowserStack, Maven, Docker, Swagger, Bash, Jira, Git, UML, Figma