

Dan Li

<https://github.com/danmxli>

Email : d22li@uwaterloo.ca

Mobile : +1-647-675-6975

EDUCATION

- **University of Waterloo** Waterloo, ON
Bachelor of Applied Science - BASc, Computer Engineering *Sept 2022 – Apr 2027*

EXPERIENCE

- **Onlia Insurance** Toronto, ON
Automation Developer *May 2023 - Aug 2023*
 - **WebDriver Testing Application:** Developed a scalable front-end project to automate client-to-site interactions using the Selenium and TestNG frameworks.
 - **Test Optimization:** Implemented Java interfaces to add an extensible automation framework for simulating intricate user flows, resulting in a 38% increase in test coverage and a 26% reduction in manual QA workload.
 - **Reporting:** Refined WebDriver exception handling capabilities, resulting in a 15% reduction in the occurrence of incorrect pass-fail reporting instances.
 - **Policy Binding Application:** Configured and ran a back-end project to perform integration tests for policy binding and account activation services.
 - **Data Retrieval:** Developed a SOAP web service to retrieve policy data for binding and activation; enhanced program-to-database communication efficiency by utilizing the JDBC API with PostgreSQL.
 - **File Writing:** Configured Excel writing capabilities with Apache POI to generate spreadsheets of activated accounts for automated testing usage, resulting in a 23% increase in QA resources.
- **BrightBearsInfo** Toronto, ON
Marketing Lead and Web Developer Assistant *Feb 2022 - Sept 2022*
 - **Network Building Campaign:** Initiated a network building campaign to acquire third-party support from non-profit organizations.
 - **BrightBearsInfo Ambassadors:** Co-founded an initiative directed towards communal youth development, career opportunities, and post-secondary research.
 - **Website Migration:** Collaborated with the developer team to transition the website from Wix to Vercel, improving project scalability for future development.

PROJECTS

- **codeBuddy** Flask, BeautifulSoup4
 - Built a responsive search interface, leveraging the StackExchange API and Google's neural matching algorithm to retrieve answers to coding-related questions.
- **Financial Portfolio** Flask, SQL
 - Developed a web-based portfolio application that simulates real-time stock market transactions.
 - Designed server-side functionalities for user account creation, authentication, and login. Integrated CRUD operations with the Yahoo Finance API, enabling users to lookup/buy/sell stocks, and view transaction history.
- **Adjusted Cost Base Stock Reporting Application** C++
 - Created a CLI application to compute the net gain and loss of financial transaction data files. Implemented the insertion sort algorithm to manipulate the data as a linked list structure.
 - Refined application memory management by developing safe pointer deletion strategies, effectively maintaining memory leak probabilities at a rate below 7%.
- **Health Helper Chatbot** MongoDB, Express.js, React.js, Node.js
 - Developed a responsive chatbot interface and created a REST API to store user health metrics. Leveraged the Natural Language Utility for Node.js to enhance chatbot response generation for health advice.

PROGRAMMING SKILLS

Languages: Python, Javascript, Typescript, C, C++, SQL, Java

Frameworks: Flask, Django, NumPy, Pandas, React.js, Vue.js, Express.js, Qt, Selenium, TestNG

CI/CD: Git, Azure Pipelines, Docker, Postman