

**Dan Li**

Github

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## EDUCATION

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

## EXPERIENCE

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- **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*
  - **Youth 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

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- **seePickle** Typescript, Next.js, Python, MongoDB
  - Created an AI-integrated productivity visualization workspace with the Cohere API.
  - Leveraged the retrieval-augmented generation framework to improve the quality of LLM-generated insights and reduce hallucinations.
  - Developed CRUD endpoints with MongoDB and state management with React. Implemented Auth0 to safeguard routes, resulting in seamless customer management.
- **Vcsualizer** Typescript, Next.js, Recharts
  - Created a portfolio template that utilizes the Github GraphQL API to synchronize real-time account changes with the website.
  - Developed analysis and visualization of public contribution data, by parsing JSON responses into TypeScript objects for component rendering.
- **Financial Portfolio** Flask, SQLite
  - Created a portfolio application to simulate real-time stock market transactions with the Yahoo Finance API.
  - Developed server-side functionalities with Flask for account creation, authentication, and login. Developed CRUD endpoints with SQL enabling users to lookup/buy/sell stocks, and view transaction history.
- **Adjusted Cost Base Stock Reporting Application** C++
  - Created a CLI application to sort and display financial transaction data with the insertion sort algorithm. Optimized the scalability of file input by implementing data parsing into a linked list structure.
  - Refined application memory management by developing safe pointer deletion strategies, maintaining memory leak probabilities at a rate below 7%.

## PROGRAMMING SKILLS

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

**Tools and Databases:** Git, Docker, Linux, MongoDB, PostgreSQL

**Frameworks and Libraries:** Flask, Django, FastAPI, Next.js, Selenium WebDriver, React.js, NumPy, Pandas