

Richard Liao

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EDUCATION

Wilfrid Laurier University

Waterloo, ON

Bachelor of Science in Computer Science and Bachelor of Business Administration

Sep 2020 – April 2025

- Coursework: Data Structures I & II, Databases, Operating Systems, Artificial Intelligence, Software Engineering

EXPERIENCE

Business Systems Developer Intern

September 2023 - December 2023

CIBC Capital Markets

Toronto, ON

- Spearheading the optimization of business processes through comprehensive systems analysis and solution-driven recommendations

Software Developer Intern

January 2023 - April 2023

Civiconnect

Beamsville, ON

- Led a team of 3 which designed and deployed 2 professional websites for complex businesses needs using **JavaScript, React, Figma, and Webflow**
- Implemented **Strapi** as a headless **CMS** and **AWS** for website deployment ensuring easy accessibility to modify web components
- Implemented search engine optimization (**SEO**) and resulted in a **45%** improvement in website discoverability
- Conducted extensive unit tests to validate cloud-based systems, using **AWS** Developer Tools for automation, resulting in improved CI/CD pipeline efficiency

Software Developer Intern

May 2022 - September 2022

Government of Ontario - Ministry of Public and Service Delivery

Toronto, ON

- Led the design and development of a UI friendly model driven application in **Microsoft Power apps** and **Azure** to analyze **1000+** files and filter them
- Designed and developed an email classification AI model in the 2023 Microsoft Hackathon with 75% accuracy which categorized tickets to respective IT teams
- Redesignated a government data dashboard into Microsoft Power Apps and transferred data using **SQL** tables
- Cleaned and migrated data **Oracle** pipelines using **C#, SQL** and **ASP.net** and tested data through **PostMan API**

Financial Analyst Intern

May 2021 - Sep 2021

Markel Canada

Toronto, ON

- Assisted in the entire underwriting process increasing efficiency by 25%

PROJECTS

Portfolio Website | Next.js, Tailwind CSS

- Designed and implemented a fully responsive website

Bug Ticket Tracker | React.js, Node.js, Express.js, MongoDB

- Developed a full stack application to allow users to add, delete and track bug issues using **MERN stack**
- Deployed the server using Heroku and hosted the client side using Netlify

Apple Stock Price Predictor | Python, Numpy, Pandas, Scikit-learn

- Developed a machine learning model that would analyze and predict Apple's stock price
- Compared the accuracy of linear regression and decision tree model in prediction of stock price

PDF to PowerPoint Converter | Python, Tkinter

- Developed a user interface application that would allow users to convert a research paper into a summarized PowerPoint presentation
- Created a design document, test report and implementation document incorporating software engineering principles

SKILLS

Languages: JavaScript, Typescript, Python, Java, C , SQL, HTML , CSS, VBA

Technologies: React.js, Node.js, Express.js, MongoDB, Next.js, Pandas, Numpy, Tailwind CSS

Tools: Git, Jupyter Notebook, Vercel, Netlify, Heroku, Shopify, Notion, Agile, SCRUM