Catherine Xie

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SKILLS

- **Languages** - Python, C/C++, JavaScript/TypeScript, HTML/CSS, SQL, MongoDB, PowerShell, VB.NET
- **Frameworks** - Flask, Django, Node.js, React, Angular, Jasmine
- **Developer Tools** - Git, Visual Studio Code, Linux, Windows, Docker, Agile methodologies (Scrum and Kanban), Confluence, Jira, Figma

EXPERIENCE

Toronto Transit Commission Toronto, ON
End User Device Programmer *May 2023 - August 2023*

- Individually programmed and documented a robust PowerShell script that automates Windows OS updates to 22H2, enhancing efficiency by ∼**15%** through the identification and installation of relevant updates, leveraging WSUS API cmdlets
- Performed regression tests on the script across **40+** local production machines, prior to its deployment on a company-wide scale of **5,000+** machines
- Proficiently deployed standardized device configurations and software to **1,200+** company-wide machines allocated to employees and high-ranking executives with DSM Explorer

UW Blueprint Waterloo, ON
Project Developer *May 2023 - August 2023*

- Utilized the MERN tech stack and Docker to enhance the registration and refund flow for Focus on Nature, a local non-profit aimed to cultivate a deeper connection between youth and nature

Empire Life Insurance Toronto, ON
Full-Stack Developer *September 2022 - December 2022*

- Led a cross-functional team in the successful design, delivery and deployment of the Glossary feature within two sprints, enhancing the learning experience for **1,500+** weekly users
- Updated and maintained company portal, servicing a weekly user base of **4,000+** users, utilizing React, Django and Docker

Bank of America Merrill Lynch Toronto, ON
Application Developer *January 2022 - April 2022*

- Spearheaded the continuous enhancement of the financial data display feature with the strategic use of Angular
- Ensured the integrity of the application by implementing comprehensive automated test suites using Jasmine and the Karma test runner and enhancing API error-handing

PROJECTS

Sales Pitch Generator *September 2022*

- Cooperated on an application that generates personalized sales pitches based on user prompts using React, Bootstrap CSS and Cohere NLP API

Stock Trading Simulator *December 2020*

- Developed a stock trading simulator web application that allows users to register an account, search real-time stock prices, and buy/sell shares, using Flask, SQL, HTML/CSS

EDUCATION

University of Waterloo
Bachelor of Computer Science, Honours, Co-operative Program *September 2020 - April 2025*

- **Relevant courses** - Introduction to Database Management, Human-Computer Interaction, Customer Experience Design, Application Development, User Interfaces, Computer Networks, Algorithms, Operating Systems, Object-Oriented Software Development, Data Structures & Data Management, Business Technology & Infrastructure