

# Michael Xie

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## EDUCATION

### University of Waterloo

Waterloo, ON

*Bachelor of Computer Science(Co-op), Human Computer Interaction Specialization*

*Sept. 2022 – Present*

**Relevant Courses:** *Algorithms, User Interfaces, Data Structures, Compilers, Object-Oriented Software Development*

## EXPERIENCE

### Developer

May 2024 – August 2024

**Royal Bank of Canada**(*Digital Development Security Team*)

*Toronto, ON*

- Developed and maintained API services for **over 5 million** clients using **Angular**, **Spring Boot**, and deployed automatically with **CI/CD** pipelines in **Jenkins**
- Created a detailed web application with **Angular**, **Tailwind CSS**, and **Spring Boot** to decode JSON Web Tokens and provide additional information about RBC Security Tokens to **over 1,000** employees, improving efficiency by **20%**
- Reduced onboarding time by **40%** by creating and deploying a token onboarding portal across multiple development environments using **Redis**, **Docker**, and **OpenShift**

### Junior Analyst/Associate

May 2023 – August 2023

**Royal Bank of Canada**(*Law Group Technology Team*)

*Toronto, ON*

- Designed and implemented robust Web Applications using **C#** and **Visual Studio**, skillfully incorporating **ASP.NET MVC 5** and seamlessly integrating data sourced from **MS SQL**
- Increased efficiency by **25%** by optimizing the creation of Power of Attorney documents, employing **ASP.NET**, **Bootstrap**, and **jQuery** in website development

## PROJECTS

**Quizlr**(GitHub) | *Android Studio, Kotlin, Java, Figma, XML*

- Engineered a **dynamic** multiple-choice quiz application using **Android Studio** and **Kotlin**, showcasing proficiency in both languages
- Crafted the application's intuitive **front-end environment**, integrated **music/SFX** functionality, and implemented quiz logic, leveraging **Activity Lifecycle** and **OOP principles**

**Battlesnakes: Spoodersnek-42**(GitHub) | *Python, AWS API Gateway, AWS Lambda*

- Partnered with a team of 4 to design and implement a virtual snake using a **REST API** on the prestigious **Battlesnakes** platform.
- Devised a **sophisticated algorithm**, leveraging advanced path-finding techniques such as **A\*** and **Flood Fill**, in **Python** to elevate the strategic depth of gameplay
- Attained an impressive **top 40 status** on the competitive Battlesnakes Ladder

**Super Tic Tac Toe**(GitHub)(Link) | *Angular, Typescript, Tailwind CSS*

- Crafted a web application with **Angular**, creating a game based on a more complex version of Tic Tac Toe
- Levered **Angular Components** with **Tailwind CSS** to design an interactive and intuitive web interface

## TECHNICAL SKILLS

**Languages:** Python, Java, TypeScript, JavaScript, C/C++, C#, SQL, Rust, Kotlin, HTML/CSS, R

**Frameworks/Libraries:** React, Spring Boot, Angular, Next.js, Vue.js, Node.js, Tailwind CSS, .NET Core, Django

**Developer Tools:** Git, GitHub Actions, Bash, OpenShift, Azure, AWS, Jenkins, Redis, Postman, Nginx, SSMS, Swagger, Tableau, Visual Studio, IntelliJ, Android Studio, Figma

**Operating Systems:** Windows, MacOS, Linux

## LEADERSHIP

### Logistics Team Lead

*Canadian University Software Engineering Conference*

*May 2024 – Present*

- Coordinated** with internal teams to design and promote the event agenda, employing detailed planning and effective **communication** methods to organize venues and a variety of speakers, workshops, and networking sessions