

# ERIC XIE

416-838-4938 | [pexie@uwaterloo.ca](mailto:pexie@uwaterloo.ca) | [in linkedin.com/in/ericcxie](https://www.linkedin.com/in/ericcxie) | [github.com/ericcxie](https://github.com/ericcxie) | [ericxie.ca](https://ericxie.ca)

## TECHNICAL SKILLS

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

**Frameworks/Libraries:** React, Node.js, Express.js, Next.js, Tailwind CSS, Flask, pandas, Selenium

**Developer Tools:** MongoDB, Firebase, Jupyter, Git

## EXPERIENCE

### Brookfield Annuity

Jan. 2023 – April 2023

Software Developer

Toronto, ON

- Developed and automated financial pricing tools by leveraging **Python**, **Pandas**, and **NumPy** to generate pricing models/memo reports, resulting in the reduction of bidding turnaround times by **40%**
- Designed, built, and deployed an intuitive **Tkinter** graphic user interface that was adopted by **65%** of the organization, enabling faster and more efficient generation of pricing proposals
- Spearheaded the transition to a new development process and established clear organizational workflows within **GitHub** to streamline collaboration and reduce errors by **15%**

### DoubleOcean Financial Group

Sep. 2021 – Jan. 2022

Market Research

Toronto, ON (Remote)

- Conducted an independent research project on machine learning used in PD-1 related medicine using library databases to explore areas for potential investment opportunities
- Collected and analyzed data using Microsoft Excel to develop insights and recommendations for investment banking teams and clients
- Utilized the knowledge gained from the research to help make an informed investment proposition of In Silico companies

## PROJECTS

### PomoDuo Timer | React, Node.js, Express.js, Firebase, Socket.IO, Tailwind CSS

March 2023 – Present

- Built a group study room platform using **React** and **Firebase** that allows users to generate/share room codes to join a Pomodoro timer study session
- Integrated bidirectional real-time communication using **Socket.IO** to enable concurrent timer functionality, resulting in **30%** increase in session completion rates
- Implemented server-side API endpoints by optimizing **Node.js** and **Express.js** to handle user and room validation

### Career Snap | MongoDB, Express.js, React, Node.js

Feb. 2023 – Present

- Developed an internship tracker using **React** and **Node.js** to help users organize application deadlines and provide data visualization tools
- Implemented **JWT** authentication using **Node.js** to ensure secure user access to the application and persisted user tokens in localStorage
- Integrated **MongoDB** for storing user account data and RESTful API endpoints using **Express.js** to handle user queries

### Personal Website | React, Next.js, Tailwind CSS, Figma

Dec. 2022 – Present

- Developed a personal website using **Next.js** and **Tailwind CSS** to create a platform for showcasing my projects and experiences
- Designed web layout and UI using **Figma** and **Adobe Photoshop** to enhance the aesthetic appeal and cohesiveness of the website
- Deployed production React build using Netlify to setup **CI/CD** Pipeline with GitHub for efficient software changes

### Build-a-Buddy - NLP Persona ChatBot | Cohere API, React, Typescript, Flask, Tailwind CSS, Figma

Jan. 2023

- Created a chatbot that allows for custom personas using **Cohere API** for NLP to accurately generate dynamic responses to user prompts
- Developed and designed a user-friendly interface using **Tailwind CSS**, **Material UI**, and **Figma** to deliver a seamless user experience and increase engagement with the chatbot
- Implemented a **Flask** backend to handle prompt/response endpoints and store chat history while maintaining chatbot personality

## EDUCATION

### University of Waterloo

Candidate for Bachelor of Computer Engineering

Waterloo, ON

Sep. 2022 – April 2027