

ERIC XIE

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EDUCATION

University of Waterloo

Candidate for Bachelor of Computer Engineering

Waterloo, ON

Sep. 2022 – April 2027

TECHNICAL SKILLS

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

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

Developer Tools: MongoDB, Firebase, Figma, Jupyter Notebook, Git, Postman

EXPERIENCE

Brookfield Annuity

Jan. 2023 – April 2023

Software Developer

Toronto, ON

- Developed and automated internal pricing tools by leveraging **Python**, **Pandas**, and **NumPy** to generate pricing models/bid documentation, resulting in the reduction of bidding turnaround times by **30%**
- Designed, built, and deployed an intuitive graphical user interface using CustomTkinter to replace legacy CLI-based process; adopted by **45%** of the organization and obtained a **98%** task success rate
- Spearheaded the transition to a new **Agile** development process and established clear **GitHub Flow** model to streamline collaboration, reducing errors in production by **20%**

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 online 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
- Capitalized on research findings to identify and help make an informed investment proposition of In Silico companies, resulting in a **2%** increase in overall return on investment

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 MongoDB, Express.js, 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 authentication tokens in localStorage
- Integrated **MongoDB** for storing user account data and RESTful API endpoints using Express.js to handle user queries

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

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 appeal and cohesiveness of the website
- Deployed production React build using Netlify to setup **CI/CD** pipeline with GitHub for efficient software changes