Eric Xie

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TECHNICAL SKILLS

Languages: Python, Javascript, Typescript, C++, Java, SQL
Frameworks/Libraries: React, Node.js, Express.js, Pandas, NumPy, Tailwind CSS, Flask, Next.js
Developer Tools: MongoDB, PostgreSQL, Postman, Firebase, Git, Jupyter Notebook, Figma

EDUCATION

University of Waterloo   Sep. 2022 – Apr. 2027
Bachelor's of Computer Engineering, Co-op   *Waterloo, ON*

EXPERIENCE

Software Developer   Jan. 2023 – Apr. 2023
Brookfield Annuity   *Toronto, ON*
- Developed and deployed internal pricing tools by leveraging **Python**, **Pandas**, and **NumPy** to streamline valuation processes, resulting in the reduction of bidding turnaround times by **20%**
- Owned the development of a mail merge application to populate bid preparation documents and slide decks, **automating** a **30+ minute** manual process to provision contract deal requirements
- Designed and built an intuitive graphical user interface using Tkinter to replace legacy CLI-based process; adopted by **45%** of the organization and obtained a **98%** task success rate

Data Scientist   Jun. 2022 – Aug. 2022
DoubleOcean Financial Group   *Toronto, ON*
- Conducted an independent research project on **machine learning** used in PD-1 related medicine using online databases to explore areas for potential **investment opportunities**
- 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

InternTrack - Internship Tracker ⬀ | *MongoDB, Express.js, React, Node.js*   Mar. 2023
- 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

PomoDuo - Synchronous Study App ⬀ | *Node.js, Express.js, Firebase, Socket.IO*   Apr. 2023
- 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/room validation

Build-a-Buddy - NLP Persona ChatBot ⬀ | *Typescript, Flask, Tailwind CSS, Cohere API, Figma*   Jan. 2023
- Created a chatbot that allows for custom personas using **Cohere API** for NLP to accurately generate dynamic responses to user prompts
- Implemented a **Flask** backend to handle prompt/response endpoints and store chat history while maintaining bot personality
- 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

Personal Website ⬀ | *React, Next.js, Tailwind CSS, Figma*   Dec. 2022 – Apr. 2023
- Developed a personal website using **Next.js** and **Tailwind CSS** to create a platform for showcasing my projects and experiences
- Deployed production React build using Netlify to setup **CI/CD** pipeline with GitHub for efficient software changes