Eric Xie

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Technical Skills

Languages: Javascript, Typescript, Python, C++, SQL
Frameworks/Libraries: React.js, Node.js, Express.js, Next.js, Tailwind CSS, Flask, pandas, Selenium, MUI
Developer Tools: MongoDB, Firebase, Jupyter, Git

Experience

Software Developer   Jan. 2023 – Present
Brookfield Annuity   *Toronto, ON*
- Developed financial bidding tools using Python, Pandas, and NumPy to generate pricing models/cash flow projections resulting in the reduction of bidding turnaround times by 80%
- Designed and implemented an intuitive Tkinter interface by collaborating closely with other departments enabling users to efficiently generate relevant bidding information, pricing reports, and slide decks
- Spearheaded the transition to a new development process and established clear organizational workflows within GitHub to streamline collaboration and reduce errors by 15%

Market Research   Sep. 2021 – Jan. 2022
DoubleOcean Financial Group Ltd.   *Toronto, ON*
- 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/Word 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.js, Node.js, Express.js, Firebase, Socket.io, Tailwind CSS*   March 2023 – Present
- Built a group pomodoro technique study room platform using React.js and Firebase to allow users to generate/share room codes
- Implemented Node.js and Express.js to create server-side API endpoints to handle user and room validation
- Integrated real-time room functionality using Socket.IO allowing multiple users to study using a pomodoro timer synchronously with each other

Career Snap ⧉ | *MongoDB, Express.js, React.js, Node.js*   Feb. 2023 – Present
- Developed an internship tracker using the MERN stack 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 in localStorage
- Integrated MongoDB for storing user account data and RESTful API endpoints using Express.js to handle user queries

Personal Website ⧉ | *React.js, 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.
- Deployed production React build using Netlify to setup CI/CD Pipeline with GitHub for efficient software changes
- Designed website through Adobe Photoshop and Figma to enhance the credibility and cohesivity of the website

Build-a-Buddy - NLP Persona ChatBot ⧉ | *Cohere API, React.js, Typescript, Flask, Tailwind CSS, Figma*   Jan. 2023
- Created a persona chatbot using Cohere API for NLP allowing for accurate and dynamic responses to user input
- Designed a user-friendly interface using Material UI and Tailwind CSS to focus on user experience and increase engagement with the chatbot
- Implemented a Flask backend to handle user requests and store existing chatbot configurations by creating REST API endpoints

Education

University of Waterloo   Waterloo, ON
Candidate for Bachelor of Computer Engineering   *Sep. 2022 – April 2027*