Bill (ZeTao) Wang

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SKILLS

Languages: Python, C, C++, Java, JavaScript
Frameworks: Serverless, PyQt5, Kivy, LangChain, FastAPI, Streamlit, Docker
Tools: Amazon Web Services (AWS), Git, Linux/Unix, Nvim/Vim, OpenCV, Figma, OpenAI

EDUCATION

University of Waterloo   Waterloo, ON | 2022-2027
Bachelor of Software Engineering
Scholarships: President's Scholarship of Distinction

WORK EXPERIENCE

SOFTWARE ENGINEER | AdaptivePulse   May 2023 - Aug 2023

- Designed and developed a query tool tailored for PDFs powered by AI with Python–utilizing Pinecone for vector storage, OpenAI and LangChain for NLP and embeddings, Streamlit as a frontend, and Docker for containerizing.
- Extracted over hundreds of RFP data using Python's Requests library and AWS Lambda (Serverless framework), and storing it as a JSON object onto AWS S3 and transformed into a database using AWS Glue.
- Engineered custom RESTful APIs to extract data from the RFP database using AWS Redshift together with FastAPI hosted on AWS EC2.

PROGRAMMING INSTRUCTOR | Canadian STEM & AI Academy   May 2022 - Aug 2022

- Created a python app inspired by the daily word game "Wordle" with PyQt5 library for the GUI and JSON files for local data storage for the hackathon curriculum.
- Instructed 5-10 students about computer vision through the Anki Cozmo–scripted using Python integrated with OpenCV and pre-trained model data to detect human faces.
- Enhanced the students' Python capabilities to a production level using GitHub and google slides by designing thorough lesson plans and step-by-step instructions for a hackathon curriculum.

HACKATHONS

EARSKETCH MUSIC ↗   Amazon x BridgeTO

- Placed 3rd overall by composing melodies using Python and the EarSketch API library in a hackathon consisting of over 100 students.
- Improved the music produced which conveys and highlights relevant societal issues by attending workshops and researching the importance of climate change, aboriginal culture, and aboriginal music/arts.

ROTMAN TRADING ALGORITHM ↗   Her Code Camp

- Placed 2nd overall by generating close to $10 000 profit using Python and Rotman Interactive Client REST API inside a simulated real-time stock-market trading environment hosted by the hackathon.
- Optimized the trading algorithm by organizing team meetings to record and analyze market trends and volatility to outperform competitors' algorithms.

THE FBLA QUIZ ↗   Canadian National Leadership Conference - FBLA

- Placed 10th nationally in the programming division by using JavaScript, CSS, and HTML to develop the front end of a web app quiz to test users' knowledge on facts found on the Future Business Leader of America's website.
- Developed the backend application by incorporating Express.js and jQuery, accessing local data storage/JSON files, and calculating users' correct answers to be displayed in the users' interface.