Kairuo Yan

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Education

Northeastern University, Boston, MA   **January 2023 – Current**
Master of Science in Computer Science, Expected Graduation: Fall 2024

Denison University, Granville, OH   **August 2018– May 2022**
Bachelors of Arts in Data Science and Math

Skills

Programming Languages: Java, Python, C++, C, JavaScript, TypeScript, Go, Scala, HTML, CSS, SQL
Technologies/Framework: AWS, JUnit, MongoDB, Docker, Scikit-learn, Mockito, Azure, Spark, Maven, Gradle, Spring/SpringBoot, Git, Linux, React, Hadoop, Kubernetes, Node.js, Pandas, Django, Flask, TensorFlow, Apache Spark
Machine Learning & AI Techniques: Deep Learning, Reinforcement Learning, Neural Network, Natural Language Processing, Speech/Voice Analytics, Computer Vision, Bayesian Models, LLM, RAG, LangChain, Hugging Face

Experience

FounderWay   **May 2024 – Present**
AI Engineer Intern   *Boston*
- Researched, designed, and implemented AI logic utilizing transformer models, RAG models, image analysis, and web browsing functionalities, leveraging Azure OpenAI functions and tools.
- Developed a website using JavaScript with React and Next.js, while also focusing on prompt engineering and fine-tuning AI models to enhance response.

Deloitte   **May 2023 – June 2023**
ChatGPT Application Engineer, Intern   *Shanghai*
- Optimized ChatGPT 4.0's tuning parameters and refined query processing to enhance its ability to analyze public sentiment and news for bond risk management.
- Developed a client-facing website using JavaScript, enabling users to upload data and interact with the ChatGPT 4.0 API. Implemented a SQLite database for testing.
- Created a Python tool to generate optimal queries, enhancing the GPT's responses by leveraging NLP techniques.

Clinical and Translational Science Institute (CTSI)   **August 2022 – December 2022**
Database Developer
- Designed and implemented a SQL database to store research and participant screening information.
- Regularly performed database optimizations and maintenance tasks, and established connection with Tableau for data analysis and visualization.

AstraZeneca   **March 2021 – July 2021**
Software Engineer Intern
- Developed a Python application that connects to the Google Maps API for data cleaning. This integration resulted in an impressive 96% enhancement in operational efficiency.
- Engineered a web platform utilizing JavaScript, which allows users to upload files and return a cleaned data document.
- Built a SQL database to store the cleaned data for data integrity and future retrievals.

Projects

Graphical Image Manipulation and Enhancement Project | *Java* ⓞ   **January – May 2023**
- Developed a GUI application utilizing JavaSpring for image manipulation and enhancement based on an MVC frame.
- Create script commands for all functionality as well as a user-friendly dashboard interface that showcases real-time image effects and updates a histogram of color distributions or intensity levels.
- Adhered to Object-Oriented Design principles while drafting the design documentation, inclusive of class diagrams and flowcharts, and provided code reviews for colleagues.

Surface Coating ML Project | *R* ⓞ   **September 2022 – December 2022**
- Executed a comprehensive machine learning project for the surface coating industry, focusing on predicting and optimizing coating performance.
- Developed regression and classification models, including Bayesian methods and feature engineering, to minimize corrosion and identify critical factors, supported by thorough exploratory data analysis and model tuning.

Extracurricular Activities

Rewriting the Code (RTC) - Member

Society of Women Engineers (SWE) - Member