

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

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 and analyzing input-output data.
- Created a Python tool to generate optimal queries, enhancing the effectiveness of ChatGPT's responses by leveraging NLP and OCR 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. This platform allows users to upload Excel files and return a cleaned data document to the user.
- 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