Luxia Yin

San Diego, CA 92129
646-309-1600 luxiay2@illinois.edu luciayin9944

Technical Skills

Languages: Python, C++/C, Java, Javascript, HTML/CSS, SQL
Frameworks/Tools: AWS, Docker, Flask, Node.js React.js, MySQL, PostgreSQL, MongoDB, Git/Github

Certification: AWS Certified Cloud Practitioner

Experience

Full Stack Developer Intern **02/2024 – 08/2024**
Global Resource Technology Development Inc *Bronx, NY*

Developed and enhanced a math learning system aimed at improving students' proficiency through daily 15-minute exercises. (mathzoos.com) | *Python Flask, React.js, PostgreSQL, AWS*

- Engineered a solution generator and template system using Python and Markdown, delivering detailed solutions and explanations for each math question, enhancing learning effectiveness.
- Integrated the frontend with the backend for uploading math solutions using React.js, Axios, and PostgreSQL, enabling dynamic solution retrieval and display.
- Designed and executed unit tests for the solution generator and template system in Python, ensuring the accuracy and correctness of the generated math solutions.
- Introduced and implemented a daily summary feature using React and RESTful APIs built with Flask, enabling users to track their study progress, and enhancing overall engagement and learning retention on the platform.
- Managed version control with GitLab and GitHub, ensuring seamless collaboration and code versioning.

Projects

MoodJournals | *React, Mantine, Recharts, Axios, Flask, Python, PostgreSQL, SQLAlchemy, JWT, OpenAI*

- Built a full-stack mood tracking app using React and Flask, implementing full CRUD functionality on user-owned journals with JWT-based access control to ensure data privacy.
- Developed RESTful APIs with pagination and integrated client-side routing for efficient data loading and seamless navigation; created interactive visualizations and word clouds to display mood trends.
- Integrated OpenAI API to generate personalized weekly emotion summaries and self-care tips based on journal entries.
- Managed relational data models with SQLAlchemy and Flask-Migrate; performed schema migrations and data storage using PostgreSQL (pgAdmin4).

Where to Go Application | *Java, kotlin*

- Developed a comparison application using Android Studio, merging functionalities from popular apps to reduce user search time during travel or outings by providing weather condition comparisons for cities.
- Designed and implemented a user-friendly interface with features including user signup/login, favorite cities management, and customizable comparison settings.
- Integrated real-time weather updates for selected cities and interactive maps using the Google Maps SDK, enhancing the application's utility, and providing valuable information to users on-the-go.

Heart Failure Readmission Prediction | *Python, CNN, NLP, Kaggle*

- Utilized Natural Language Processing (NLP) deep learning techniques to design a Convolutional Neural Networks (CNN) model for predicting heart failure hospital readmission from clinical notes, leading to a 8.2% improvement in predictive accuracy over traditional machine learning models.
- Optimized CNN model performance using hyper-parameter tuning, resulting in more accurate predictions.
- Developed a chi-square based feature analysis to automatically retrieve key features/ words from clinical notes, providing valuable clinical insights into patterns in readmission vs. non-readmission cases.

Education

University of Illinois at Urbana-Champaign, Champaign, IL **01/2022 – 12/2024**
Master of Computer Science *GPA: 4.0/4.0*

SUNY College of Environmental Science and Forestry, Syracuse, NY **05/2015**
Bachelor of Landscape Architecture *Graduated Cum Laude*