LUNA HUAYUE LU

Graduate Student in Computer Science and Engineering
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SUMMARY

Computer Science Graduate with expertise in full-stack development, machine learning, and data analysis. Skilled in Python, ReactJS, NodeJS, MongoDB, and advanced data analysis techniques. Experienced in developing dynamic web applications and applying machine learning to solve real-world problems.

SKILLS

- **Programming Languages:** Python (Proficient), Java, JavaScript, C, lisp, Matlab
- **Web Development:** HTML, CSS, MERN Stack (MongoDB, Express.js, React, Node.js) Full Stack Development, REST API Development, MySQL, NoSQL
- **Development Tools:** Git, Linux, Windows, MacOS,, Jenkins, Docker, CI/CD
- **Expertise:** Web Development, Data Analysis, Machine Learning, Data Visualization, Networked Embedded Systems

EDUCATION

Graduate Student in Computer Science and Engineering — University of Connecticut (UCONN) | Storrs, CT, USA
Expected Graduation: **Dec 2024**
GPA: **3.667/4.0**
Relevant Courses: Machine Learning, Advanced Algorithms, Data Analysis, Big Data Analytics, Networked Embedded Systems

Non-Degree Student in Computer Science and Engineering — University of Connecticut (UCONN) | Storrs, CT, USA
Sep. 2021 - May. 2022
GPA: **3.60/4.0**
Relevant Courses: Algorithms, Data Structure, Programming, Data Visualization

PROJECTS

Full Stack Book Store Application — Dec 2023 - Jan 2024

- Designed and developed a dynamic user interface using ReactJS with modern features.
- Built a robust backend API with NodeJS and Express, featuring RESTful API endpoints.
- Employed MongoDB for efficient data storage and retrieval.
- Implemented user authentication and authorization platform access.

Movie Discovery App using React JS — Nov 2023 - Dec 2023

- Created a user-friendly movie discovery app with React JS, integrating TMDB API for real-time movie searches and data presentation.
- Applied React hooks for state management and functional components for dynamic rendering.
- Enhanced user interaction through dynamic input fields and efficient data fetching, displaying movie information with custom components

Machine Learning Based Flower Image Classification with Data Balancing — Sep 2023 - Dec 2023

- Leveraging zero-shot text-to-image(TTI) synthesis models to address data imbalance, enhance model accuracy and stability.
- Utilized machine learning techniques for classifying flower images from the Flowers102 dataset.
- Improved Model accuracy and stability, especially for classes with fewer instances.

PUBLICATIONS

- Xinran Zhou and **Huayue Lu.** "Improved On-Device Hyperdimensional-Computing-Based Image Segmentation." 2023 IEEE the 3rd International Conference on Intelligent Technology and Embedded Systems(ICITES). IEEE, 2023