Yafei Li

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Education

Texas A&M University Aug. 2024 – Present
Master of Science in Computer Engineering | ***GPA**: -/4.0* *College Station, TX*

- **Courses**: Machine Learning, Analysis of Algorithms, Intelligent User Interface

Wuhan University of Technology Sep. 2021 – Jun. 2024
Master of Science in Computer Science | ***GPA**: 3.7/4.0* *Wuhan, China*

- **Courses**: Computer Organization, Data Structures, Modern Database Technology, High Performance Computer Network
- **Honors**: Excellence Scholarship, Third-class Scholarship

Technical Skills

Programming: Java, Python (PyTorch, matplotlib, panda), C/C++, JavaScript, HTML, CSS
Technologies: Front-End Development (Node.js, React, Bootstrap), Computer Vision, Natural Language Processing

Experience

Graduate Research Assistant Jan. 2023 – Apr. 2024
Wuhan University of Technology *Wuhan, China*

- Developed a **cross-system** log anomaly detection system using BiLSTM to extract log sequence features, achieving high accuracy and robustness. Explored and implemented **Contrastive Domain Discrepancy (CDD)** matrix for enhanced detection across different systems.
- Achieved an average improvement of **3%** in detection accuracy for cross-system log anomaly detection on log datasets.
- Authored and submitted a research paper to **IEEE Industrial Informatics**, currently under review. The **Contrast Adaptive Transfer Learning** method demonstrated superior generalization abilities, contributing to improved system security when handling new and unknown log data types.

Computer Vision Program Developer Sep. 2021 – Dec. 2022
Wuhan University of Technology *Wuhan, China*

- **Developed** various computer vision models, including **waste classification**, **face detection**, and **object detection**, and successfully deployed them on demo boards.
- **Designed and distributed experiments** and authored **experiment manuals** to guide undergraduate students in conducting computer vision experiments.

Projects

YelpCamp Web Application | *Personal Project* Aug. 2024

- Developed a full-stack web application, **YelpCamp**, allowing users to create, view, and review campgrounds using **Node.js**, **Express**, and **MongoDB**.
- Implemented user authentication and authorization using **Passport.js** to enable secure login, registration, and user-specific actions.
- Integrated **Cloudinary** for image uploads and **Mapbox** for interactive maps, enhancing user experience with multimedia and location features.
- Designed a responsive front-end using **HTML**, **CSS**, and **Bootstrap**, ensuring the application is accessible on various devices.

Gitlet Version Control System | *Course Project* Jan. 2024

- Engineered a lightweight version control system, **Gitlet**, replicating key functionalities of **Git**, including branching, committing, merging, and file version tracking, utilizing **Java**.
- Architected and implemented a custom file system to manage file state and version history, optimizing storage and retrieval with advanced algorithms for improved efficiency.
- Conducted rigorous unit testing to validate system reliability and accuracy in performing version control operations, ensuring high robustness.