Haowei Li

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Education

Southern Methodist University **Dallas, TX**
Master of Science in Datacenter Systems Engineering, GPA: 3.8/4.0 **May 2026**

- Courses: Cloud Computing, Algorithm Engineering, Software Project Management and Planning, Computer Networks & Distributed Systems, TCP/IP Network Administration

The University of Sydney **Sydney, Australia**
School of Computer Science **July 2021**

- Courses: Machine Learning and Data Mining, Database Management Systems

Beijing Forestry University **Beijing, China**
Bachelor of Engineering in Electronics Information Science and Technology **July 2019**

- Award: Second Prize, China International College Students' Innovation Competition

Skills

Programming: Python, SQL, R, C#, Dart, MATLAB
Data Tools: SAS, Stata, Tableau, Jupyter Notebooks
Knowledge: Database Management, Cloud Computing, Data Analysis, Machine Learning, App Development

Experience

University of Missouri **Columbia, MO**
Research Assistant **Aug 2022 – Present**

- Utilized R and Stata to analyze the relationship between consumption and stock returns using the GMM and Capital Asset Pricing Model (CAPM)
- Processed and extracted 300GB+ of Consumer Panel Data using SAS, labeling it by different consumption categories and conducting daily and weekly measurements
- Developed automation scripts using Python and R to implement experimental detection automation
- Scraped millions of job postings data for research purposes using Scrapy, Selenium, and Pandas, incorporating proxy rotation and user-agent spoofing for efficient data collection

Suzhou Pavinar Intelligent Technology Co., Ltd. **Suzhou, China**
Intern at Technical Department **May 2023 – Dec 2023**

- Trained a CNN model to classify defects, optimizing labeling strategies to improve classification accuracy by 20%
- Utilized OpenCV to implement Gaussian filtering and edge detection, improving defect identification accuracy

Projects

Adaptive Monitor Brightness System **Dec 2024 – Present**
A system to dynamically adjust monitor brightness based on ambient light and user preferences

- Utilize Arduino with light sensors to collect real-time lighting data
- Design a Flutter-based user interface for manual adjustments and visualization
- Implement DDC/CI protocols to control monitor brightness programmatically
- Leverage LSTM to learn user adjustment patterns and automatically set monitor brightness

Atmospheric Visibility Estimation System Based on Mobile Cameras **Jan 2018 – Apr 2018**
An Android application to estimate atmospheric visibility using CNN model by analyzing captured image

- Imported and processed large datasets of images to train the CNN for accurate air visibility estimation
- Integrated GPS data and smartphone sensors to provide a real-time solution for visibility
- Developed an SQL database to store image data, sensor readings, and visibility results

Additional Information

Interests: Developing Game Plugins, Self-Hosting, Road Cycling in the Mountains, Portrait Photography
Activities: Volunteer at FIS Snowboard Big Air World Cup