Lidang Jiang

August 12, 1995, +86 15307241568
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Algorithm & Front-end Development Engineer, ¥12k-17k/month
From Xianning, Hubei Province, currently living in Haikou, Hainan Province
Homepage: https://lidang-jiang.github.io

Education

Sichuan University, *Master's Degree* 2021.09 - 2024.07

College of Chemical Engineering, Materials and Chemical Engineering

- University Second-class Academic Scholarship, Academic Year 2021 - 2022
- University Second-class Academic Scholarship, Academic Year 2022 - 2023
- University Second-class Academic Scholarship, Academic Year 2023 - 2024

Jinzhong University, *Bachelor's Degree* 2014.09 - 2018.07

College of Chemistry and Chemical Engineering, Applied Chemistry

Tongshan County No.1 High School 2011.09 - 2014.07

Self-Evaluation

Scored 502 in College Entrance Exam. Undergraduate GPA: 2.9/5, ranked 45/50. Graduate Entrance Exam: 263 in 2020 and 400 in 2021 (8th/120), Mathematics II: 141 (1st/120). Graduate GPA: 3.5/4, top 30%.

During my graduate studies, I primarily focused on research at the intersection of AI and lithium-ion batteries (LiBs). As the first author, I published two papers in *Energy* and *Applied Energy* (both are Q1 journals in CAS and JCR rankings). Throughout my master's studies, I developed the ability to independently conduct interdisciplinary research.

While working as a large language model algorithm engineer, I quickly mastered a variety of large language model technologies (e.g., RAG, LangChain, fine-tuning, few-shot learning, etc.). Additionally, I expanded my skill set in front-end development, building full-stack development capabilities.

My current research interests include AI4Science, Agents, Generative AI, Deep Learning, LLMs, and MLsys.

Publications

1: Jiang, Lidang, et al. "A Robust Adapted Flexible Parallel Neural Network Architecture for Early Prediction of Lithium Battery Lifespan." *Energy*, 308:132840, 2024. (IF=9)

2: Jiang, Lidang, et al. "Generating Comprehensive Lithium Battery Charging Data with Generative AI." *Applied Energy*, 377:124604, 2025. (IF=10.1)

Professional Skills and Courses

Algorithm Skills	Front-end Skills	Other Skills	Courses and Language
Machine Learning, Deep Learning, GenAI	HTML, CSS, JavaScript, Vue	Git, Docker, Linux	Mathematical Methods, Numerical Analysis
RAG, Agents, LangChain	Vue Router, Element-UI, Vant	LaTeX, Data Analysis	Stanford CS 231n, CS 224n
Pytorch, Distributed Training, Fine-tuning	Husky, Prettier		CET-4
Word Embedding Models, Chain of Thought, Few-shot Learning	ESLint, Stylelint		
Large Model Testing and Optimization			
Bayesian Optimization			

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Work Experience

China Telecom Digital Intelligence Technology Co., Ltd., Algorithm Engineer 2024.07 - Present

- Hainan Branch (Labor Dispatch)
- Large Language Model Algorithm Engineer (2024.07 - 2024.09)
- Front-end Development Engineer (2024.09 - Present)

Wenjia Education, etc., Graduate Entrance Exam Subject Tutor 2021.05 - 2021.12

Guangzhou Lizhi Education Technology Co., Ltd., Yousi Tutoring, etc., Math Teacher 2021.05 - 2021.12

Others (e.g., Unemployed, Preparing for Exams at Home, etc.) 2019.09 - 2021.05

Real Estate Consultant, Environmental Engineer, Hotel Receptionist, Game Booster 2018.07 - 2019.09

Project Experience

Project 1: Management Platform V2.5

Management Platform V2.5 *2024.10.22 - 2024.11.20*

- **PC and Mobile Vehicle Management Function Development**
- **Project Background**: Internal vehicle management system covering both PC and mobile platforms, mainly used for vehicle usage management and statistics, including permission management, data filtering, and export.
- **Tech Stack**:
  - PC: Vite + Vue2 + Vue Router + Pinia + Element-UI + Husky + ESLint + Stylelint + Prettier.
  - Mobile: Vue2 + Vue Router + Pinia + Vant + ESLint + Prettier.
- **Key Contributions**:
  - **PC**:
    - Developed the "Vehicle Report" module:
      - Implemented permission management, controlling access rights for different roles to ensure data security.
      - Created multi-character input filtering for license plates, departments, and date ranges, improving data query efficiency.
      - Implemented data export functionality with SMS verification, ensuring data compliance.
    - Utilized code quality tools (ESLint, Stylelint, Prettier) and introduced Husky for pre-commit checks, improving code quality and readability.
  - **Mobile**:
    - Developed modules such as "Workstation," "Approval Center," and "Vehicle Management":
      - **Workstation**: Optimized user dashboard for mobile users, improving page load speed and interaction experience.
      - **Approval Center**: Added features for task filtering, status updates, and instant feedback to enhance approval efficiency.
      - **Vehicle Management**: Built complete workflows for vehicle application and approvals, including monitoring and record tracking.
    - Enhanced responsive design for mobile, integrating Vant components to improve UI/UX.
- **Project Achievements**:
  - Improved data access efficiency and system security.
  - Addressed multi-terminal business needs, supporting consistent data interactions.
  - Streamlined mobile approval processes, reducing average approval time.

Project 2: Red Detachment of Women V1.0

Red Detachment of Women V1.0 *2024.11.11 - 2024.11.30*

- **Multi-terminal Front-end Module Development**
- **Project Background**: Digital platform development for the Red Detachment of Women Memorial Park, including management backend, PC terminal, and Youth PC terminal, providing visit management, study activities, and traffic guidance services.
- **Tech Stack**: Vue2 + Vue Router, Element-UI, Vant, ESLint, Prettier.
- **Key Contributions**:
  - **Management Backend**:
    - Built the "Study Registration Management" module, including functionalities for adding, editing, and publishing.
    - Developed dynamic forms for study activities with rich text editing and file attachments.
    - Supported multi-status management operations like save, temporary save, and publish.
  - **Youth PC Terminal**:
    - Developed the "Visit Services" module, showcasing visit guidelines and reservation functionality.
    - Optimized UI design with card-style layouts, enhancing usability.
- **Project Achievements**:
  - Enhanced user interaction by integrating form validations and dynamic updates.
  - Reduced operational costs for content updates via dynamic backend management.
  - Integrated multi-terminal functionality, meeting diverse user needs.