

Lidang Jiang

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Algorithm & Frontend-Backend Full Stack Development Engineer, ¥15k-20k/month
From Xianning, Hubei Province, currently living in Haikou, Hainan Province
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EDUCATION

Sichuan University, Master’s Degree 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	2021.09 - 2024.07
Jinzhong University, Bachelor’s Degree College of Chemistry and Chemical Engineering, Applied Chemistry	2014.09 - 2018.07
Tongshan County No.1 High School	2011.09 - 2014.07

SELF-EVALUATION

Scored 502 in College Entrance Exam. Undergraduate GPA: 2.9/4, 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.

During my work as a LLM engineer, I quickly learned technologies like RAG and Langchain. To improve coding skills, I turned to traditional development. During this time, I learned front-end and back-end technologies, accumulating 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	Back-end Skills	Other Skills and Courses
Machine Learning, Deep Learning, GenAI, RAG, Agent, Langchain, Pytorch, Distributed Training, Fine-tuning, Few-shot Learning, LLMs Testing and Optimization, Bayesian Optimization	HTML, CSS, JavaScript, Vue, Element-UI, Vant, uni-app, Husky, Prettier, ESLint, Stylelint	Java, SQL, Spring, SpringBoot, SpringCloud, Mybatis, Redis, Microservices	Git, Docker, Linux, LaTeX, Data Analysis, Mathematical Methods, Numerical Analysis, Stanford CS 231n, CS 224n, CET-4

WORK EXPERIENCE

China Telecom Digital Intelligence Technology Co., Ltd.	2024.07 - Present
<ul style="list-style-type: none">• 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 10: Ganqi Wanhua Platform V3.1	2025.05.15—2025.05.31
<ul style="list-style-type: none">• Module (Frontend): Smart Government Data Management Suite• Project Background: Added data status tracking and batch approval features to solve cross-department data collaboration challenges.• Technology Stack :<ul style="list-style-type: none">– Frontend: Vue2 + Element-UI– State Management: Vuex– Build Tool: Vite• Core Implementation :<ol style="list-style-type: none">1. Visit Status Field Annotation :2. Batch Approval Engine :<ul style="list-style-type: none">– Implemented multi-select operations3. Data Status Tracking List :<ul style="list-style-type: none">– CRUD operations for the list	
Project 9: Haikou 12345 Intelligent Reporting System V1.0	2025.05.13—2025.05.31
<ul style="list-style-type: none">• Module (Frontend): Intelligent Report Editor and Template Management Center• Project Background: An automated government hotline reporting system that generates structured reports from ticket data, solving low efficiency in manual report preparation and inconsistent formats.• Technology Stack :<ul style="list-style-type: none">– Frontend: Vue2 + Element-UI + Quill– State Management: Vuex– Build Tool: Vite• Core Contributions:<ol style="list-style-type: none">1. Intelligent Template Management System :<ul style="list-style-type: none">– Table CRUD operations2. Interactive Report Template Editor :<ul style="list-style-type: none">– Developed an extensible table component supporting dynamic rows and columns with external data links– Developed an extensible deepseek directive modal component supporting insertion of deepseek directives– Implemented a data binding system: ΔData \leftrightarrow ΔView	

Project 8: 928 Hospital –Model-based Command System V2.0

2025.03.31 - 2025.04.09

- **Module (Frontend):** To-Do Tasks Module
- **Project Background:** Added a to-do tasks module to establish a closed-loop task supervision mechanism. Solved issues in V1.0 such as fragmented task management, difficult cross-department collaboration, and blind spots in progress tracking.
- **Technology Stack:**
 - Frontend: Vue2 + Element-UI
 - State Management: Vuex
 - Build Tool: Vite
- **Main Contributions:**
 - **Core Feature Development:**
 - * Implemented dual-view task modes (“Created by Me” / “Assigned to Me”), supporting different permissions for creators and executors
 - * Developed a department tree selection component supporting three levels (Level 1 > Level 2 > Level 3)
 - * Built an overdue auto-highlight mechanism
 - **Interaction Implementation:**
 - * Implemented a pagination loading component with default 20 items/page and support for 10/20/50 switching
 - * Developed a progress input validator enforcing the rule New Progress \geq Historical Max Progress

Project 7: Common Service Platform for Risk Monitoring and Early Warning System V1.0.1 2025.03.10 - 2025.03.21

- **Module (Frontend):** CRUD section of the early warning model management system
- **Project Background:** Refactored the core module of the government-grade risk early warning platform to establish an early warning linkage mechanism. Addressed issues in version V1.0.0 such as dispersed model management and poor multi-source data adaptability.
- **Technology Stack:**
 - Frontend: Vue2 + Element-UI
 - State Management: Vuex
 - Build Tool: Vite
- **Main Contributions:**
 - **Core Feature Development:**
 - * Implemented a tri-state filtering mechanism supporting dynamic toggling among “All / Warned / Unwarned”
 - * Built a model-type to entity-type linkage component that auto-populates warning names based on tree-structured data

Project 6: Red Army Women’ s Memorial Park Digital Platform V1.2.0

2025.02.25 - 2025.03.06

- **Module (Frontend):** Collaborative development across multiple ends (Official Website Chinese Version / Youth Version / Admin Backend)
- **Project Background:** Based on V1.0 with experience upgrades, focused on refactoring the tour services workflow and achieving data interoperability across three ends. Solved pain points in V1.0 like poor compatibility and lengthy reservation processes.
- **Technology Stack:** Vue2 + Vuex + Element-UI
- **Main Contributions:**
 - **Core Feature Refactoring:**
 - * Designed and implemented a unified reservation service system across three ends:
 - Dynamic form engine: auto-switches fields based on user type (Individual / Team)
 - Secure document download: implemented server-side rendering for Word templates

Project 5: Ganqi Wanhua Platform V2

2025.02.21 - 2025.02.25

- **Module (Frontend):** Enterprise data validation module
- **Project Background:** A government-enterprise data verification platform providing enterprise information validation services for government bodies, banks, etc. Integrated the national market entity API for batch verification of enterprise names and unified social credit codes to solve low-efficiency manual checks.
- **Technology Stack:**
 - Frontend: Vue2 + Element-UI + Axios
 - Engineering: Vite + ESLint + Prettier
- **Main Contributions:**
 - **Core Feature Development:**
 - * Implemented batch Excel import, supporting parsing of Table 1 (Basic Information) and Table 5 (Credit Information)
 - * Developed a real-time validation progress component with progress bar, success/failure statistics, and remaining API call count display
 - * Designed validation status management logic to dynamically update table data based on API responses:
 - Validation success: auto-fill the unified social credit code
 - Validation failure: mark “Enterprise not found” and clear the code
 - API quota exhausted: mark “API calls exhausted” and disable operations

Project 4: Project Platform Management System V2.6

2025.01.13 - 2025.02.06

- **Module (Frontend):** Mobile-end “Approval Center” module development
- **Project Background:** An internal company project management platform covering multiple approval workflows and management functions. Version V2.6 added the “Business Opportunity Approval” feature to better manage and review corporate opportunities.
- **Technology Stack:**
 - Mobile End: Vue2 + Vue Router + Pinia + Vant + ESLint + Prettier
- **Main Contributions:**
 - **Approval Center Module Development:**
 - * Developed the mobile-end “Approval Center” module, supporting viewing and managing various approval tasks such as business opportunity approvals, overtime task approvals, contract approvals, etc.
 - * Designed and implemented query and action features for approval tasks, supporting filtering by approval name, initiator, etc., improving task management efficiency.
 - * Integrated status display for approvals, including “In Progress,” “Approved,” “Rejected,” etc., ensuring users can quickly understand the approval status.
 - * Implemented a detailed view page for business opportunity approvals, including opportunity ID, approval status, and risk indicator (Business Opportunity Red-Green Light), optimizing the business opportunity management workflow.
 - * Used Pinia for state management to ensure real-time data updates and efficient communication between components.

Project 3: Digital Campus System V2.0.5

2024.12.13 - 2024.12.24

- **Module (Frontend):** Development of PC-end duty assignment settings and WeChat Official Account delegation verification and push modules
- **Project Background:** The Digital Campus System is designed to provide schools with a comprehensive management and service platform, improving efficiency for homeroom teachers and parents, and ensuring student safety and convenient management. The project covers both the PC end and the WeChat Official Account end, implementing class duty assignment management and student pickup delegation verification functions respectively.
- **Technology Stack:**
 - Frontend: Vue2 + Vue Router + Vuex, Element-UI, uni-app
 - Tools: ESLint, Prettier, Git
- **Main Contributions:**
 - **PC-end “Duty Assignment Settings” Module:**
 - * Designed and implemented a class selection dropdown component, supporting multiple class switching and automatic display of a single class.
 - * Developed a duty assignment list with ascending order sorting, providing edit, delete, and add functions.
 - * Implemented filter and search functionality with keyword fuzzy search for assignment names.
 - * Designed and implemented add/edit modals, including form validation for assignment name and sort order to ensure data accuracy.
 - * Added permission checks for delete operations to enhance system security.
 - **WeChat Official Account “Delegation Verification and Push” Module:**
 - * Implemented QR code scanning verification, allowing delegates to enter the verification page by scanning a QR code.
 - * Designed and developed a delegation verification form, including student name, delegate name, phone number, and SMS verification code, ensuring accurate information submission.
 - * Implemented a delegation details page to display verified information and provide a completion button for pick-up operations.
 - * Integrated WeChat template message API to automatically send pick-up status notifications to parents or homeroom teachers, ensuring timely information delivery.

Project 2: Red Army Women’s Memorial Park Digital Platform V1.0

2024.11.11 - 2024.11.30

- **Module (Frontend):** Multi-end frontend module development
- **Project Background:** Development of the Red Army Women’s Memorial Park digital platform, including an administration backend, PC end, and youth PC end, providing tour services, study program management, transportation guides, and more to enhance online interaction and user experience.
- **Technology Stack:** Vue2 + Vue Router, Element-UI, Vant, ESLint, Prettier
- **Main Contributions:**
 - **Administration Backend:**
 - * Developed the “Study Program Enrollment Management” module, including create, edit, and publish functions.
 - * Implemented dynamic forms for study programs, supporting title, notes, rich-text content editing, and attachment upload.
 - **Youth PC End:**
 - * Developed the “Tour Services” section, displaying visitor guidelines and reservation modules.

Project 1: Project Operation Management Platform V2.5

2024.10.22 - 2024.11.20

- **Module (Frontend):** PC-end and mobile-end vehicle management feature development
- **Project Background:** An internal enterprise vehicle management system covering both PC and mobile platforms. It is used for vehicle usage management and statistics, including permission management, data filtering, and exporting functions.
- **Technology Stack:**
 - PC End: Vite + Vue2 + Vue Router + Pinia + Element-UI + Husky + ESLint + Stylelint + Prettier
 - Mobile End: Vue2 + Vue Router + Pinia + Vant + ESLint + Prettier
- **Main Contributions:**
 - **PC End:**
 - * Developed the “Vehicle Reports” module.
 - **Mobile End:**
 - * Developed the “Dashboard,” “Approval Center,” and “Vehicle Management” modules:
 - **Dashboard:** Implemented data overview and quick access on the mobile user homepage, optimizing load time and interaction.
 - **Approval Center:** Built task query and action features, supporting filtering, status updates, and instant feedback to improve approval efficiency.
 - **Vehicle Management:** Completed the full workflow for vehicle requests and approvals, including request records and status monitoring.