Hang **Wang**

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Passionate Full Stack Developer

Professional Experience

Single Molecule Science UNSW   *Sydney, Australia*
App Developer   *May 2024 - July 2024*

- Enhanced the search functionality of the internal after-hours approval application.
- Streamlined the application approval flow, making it more user-friendly and intuitive, resulting in a more efficient and user-friendly approval process.

Microsoft Power Platform   Powerapps   Sharepoint   Power Automate

DERI Energy Research Institute CO.,LTD   *Nanjing, China*
Web Developer   *Nov 2021 - Aug 2023*

- Handled the entire front-end development life cycle of internal office automation system. Collaborated with another department to deliver key features, including rich text editing, a photo gallery, and calendar scheduling. The weekly report feature was recognized by the company for its seamless integration into managers' weekly meetings and positive impact on team communication.
- Developed interactive data visualizations using ECharts for the micro-grid controller, providing real-time insights into grid performance, energy consumption, and improving data-driven decision making.
- Maintained a web crawler for harvesting electricity bill data from the China State Grid website. Developed Python modules to manage user login sessions, retrieve PDF bills, parse PDF content, and provide billing information via FastAPI-powered APIs. Achieving a 30% boost in scraping success rate and substantially improving data extraction efficiency, directly contributing to faster billing processing.

TypeScript   Vue.js   React.js   Docker   ECharts   Tiptap   MSSQL   Python   FastAPI

Education

University of New South Wales   *Sydney, Australia*
Master of Information Technology   *2024 - current*

- WAM: 85.3 (High Distinction)
- Course: Rust Programming | Neural Networks and Deep Learning | Database Systems

Nanjing University of Information Science and Technology   *Nanjing, China*
Bachelors of Information Technology   *2018 - 2022*

- GPA: 3.458 (Top 5%)
- Graduated with honors
- Course: Data Structures and Algorithms | Computer Networks | Operating Systems

Projects

BulletinOnChain   *bulletin.oddc.link*
Bulletin board on the blockchain

- A decentralized bulletin board application.
- Real-time updates with optimistic UI
- Smooth infinite scrolling pagination

Solidity   Wagmi   Ethereum   Hardhat   Jotai   React Query

Aissess   *aissess.oddc.link*
AI powered self-assessment tool

- Analyze pdf documents or text files to generate multiple-choice questions and answers.
- All responses are streamed back to the user in real-time.
- With smooth animations and a clean UI, the tool is easy to use and understand.

Next.js   React.js   Cloudflare   shadcn/ui   Framer Motion   Tailwind CSS

Skills

Languages   English | Chinese | Japanese (Elementary)

Tech Stack   TypeScript | JavaScript | React.js | Next.js | React Native | Expo | Vue.js | Python | Rust | Linux | Docker | HTML/CSS | PostgreSQL