Hang Wang

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Full Stack Developer with expertise in TypeScript, React, and Python. Experience in building interactive web applications and data visualizations.

Professional Experience

Single Molecule Science UNSW

Sydney, Australia

APP DEVELOPER

May 2024 - July 2024

- Engineered an advanced search feature for the internal after-hours approval application, reducing query times by 25% and boosting user satisfaction
- Redesigned and automated the application approval workflow, which cut the average approval turnaround time by 40% and significantly
 improved operational efficiency.

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 Master of Information Technology

Sydney, Australia

2024 - Present

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



Nanjing, China

2018 - 2022

- GPA: 3.458 (Top 5%)
- · Graduated with honors
- Course: Data Structures and Algorithms | Computer Networks | Concepts of Programming Languages

Projects ____

21st Century Weather HPC RESOURCE DASHBOARD

UNSW, Sydney, Australia

Sep 2025 - Present

• Led a five-member lab team to deliver a High-Performance Computing (HPC) resource dashboard for the Gadi fleet, which provided real-time visibility into resource utilization and job status, significantly improving fleet management efficiency.

- Maintained the mono-repo that pairs a Next.js application with a FastAPI log ingestion service.
- · Containerized the full stack with Docker Compose and automated Drizzle migrations bootstrapping for reproducible deploys.
- Built a live operations loop: trusted collectors POST PBS job snapshots with signed bearer tokens, Next.js revalidates caches, and an authenticated SSE channel fan-outs job IDs so the dashboard refreshes in place.
- · Set up the GitHub Actions CI/CD pipeline that gates every branch with lint/format, type checks, unit tests, and e2e tests.

Next.js FastAPI PostgreSQL Docker Compose Drizzle ORM TypeScript Python PBS GitHub Actions

Skills

Languages English | Mandarin | Japanese (Elementary)

Tech Stack Frontend: TypeScript, JavaScript, React.js, Next.js, React Native, Expo, Vue.js, HTML/CSS

Backend: Python, Rust, FastAPI **Databases:** PostgreSQL, MSSQL

DevOps & Tools: Docker, Linux, Git, GitHub Actions, Terraform, AWS

Hang Wang Curriculum vitae