Hang **Wang**

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

Education

University of New South Wales
MASTER OF INFORMATION TECHNOLOGY

Sydney, Australia
Feb. 2024 - Feb. 2026

- WAM: 85.6 (High Distinction)
- Course: Rust Programming | Neural Networks and Deep Learning | Database Systems

Nanjing University of Information Science and Technology
BACHELORS OF INFORMATION TECHNOLOGY

Nanjing, China
Sep. 2018 - Jun. 2022

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

Professional Experience

DERI Energy Research Institute CO.,LTD
FULLSTACK DEVELOPER

Nanjing, China
Jul. 2022 - 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. TDD (Test-Driven Development) practices were implemented, and integration tests were developed for provincial bills to ensure the quality and functional stability of the refactored code. 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

Projects

HPC Resource Dashboard
21ST CENTURY WEATHER

UNSW
Sep. 2025 - Dec. 2025

- Led a five-member lab team to deliver a High-Performance Computing (HPC) resource dashboard, 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

Lab After-Hours Approval Application
SINGLE MOLECULE SCIENCE UNSW

UNSW
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

Skills

Languages   English | Mandarin | Japanese

Tech Stack   **PL & Frameworks:** TypeScript, JavaScript, React.js, Next.js, React Native, Vue.js, Python, Rust, HTML/CSS
Agentic Tools: Claude Code, Codex, OpenClaw, ComfyUI
Databases: PostgreSQL, MSSQL
DevOps & Tools: Docker, Linux, Git, GitHub Actions, Terraform, AWS, GCP, Neovim