

Ruilong Li (*Jerry*)

Software Development · Data & Automation

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Profile

Computer Science graduate with internship experience in web applications, local LLM deployment and microgrid optimisation. Builds Python and TypeScript software, including a live interactive history exhibition, a released Windows utility, an offline food-log prototype and AI video workflows. Brings customer-facing team leadership alongside technical delivery.

Temporary Graduate visa (subclass 485) valid until 29 November 2027.

Technical Skills

Programming Python, TypeScript, JavaScript, SQL

Web and APIs React, Next.js, FastAPI, Node.js, REST APIs, JWT, Tailwind CSS

Data and applications SQLite, data imports and validation, React Native / Expo, Tk

Delivery Git, Docker, testing, FFmpeg, PyInstaller, Jira

Relevant Technical Experience

Website Developer

Sep 2024 – Aug 2025

YNW Web and Apps · Internship · Adelaide, SA

- Contributed to local LLM deployment with vLLM, including inference setup, API endpoints and GPU performance tuning.
- Integrated FastAPI backend services with JWT-based access control and built responsive React and Tailwind interfaces.
- Wrote Python reliability checks and documented application architecture; tracked work in Jira and contributed to Agile team reviews.

Algorithm Engineer

Aug 2023 – Jun 2024

Siact Power · Internship · Xi'an, China

- Supported a microgrid scheduling prototype using Pyomo and CBC, comparing reinforcement learning and mixed-integer optimisation on cost and feasibility.
- Contributed to Q-learning reward and state/action design; built a React and FastAPI interface for scenario uploads and result visualisation using Git and Docker.

Education

Bachelor of Computer Science

2019 – 2023

University of Adelaide · Adelaide, SA

Selected Projects

World, At This Moment

2026 – Present

Independent project · Live interactive history exhibition

- Built and published a browser-based exhibition that explores historical moments across places and time through interactive globe and story views.
- Developed the Next.js / React / TypeScript experience with Three.js / React Three Fiber and GSAP; added Chinese and English presentation.

Next.js · TypeScript · Three.js · GSAP | world-at-this-moment.com

AI Live Interactive Video

2026 – Present

Project contributor · Architecture, early implementation and testing

- Defined the initial system architecture, development documentation and project plan for turning viewer comments into generated video segments.
- Implemented and tested the initial Node.js / TypeScript prototype with SQLite state and FFmpeg media processing.

Node.js · TypeScript · SQLite · FFmpeg · video generation APIs

ShiHeng

2026 – Present

Independent project · Bilingual food-logging prototype

- Built an Expo / React Native app for food search, portion adjustment and meal logging, with SQLite catalogue search and local personal-data storage.
- Imported Australian and US food-composition data with source labels and catalogue checks across 13,557 records; added JSON backup, CSV export and 7/30-day summaries.

TypeScript · React Native · Python · SQLite | github.com/MGMTopia/shiheng

AI Quota Pet

2026 – Present

Independent project · Released Windows application

- Released a Python / Tk desktop companion with optional AI-tool quota and local clock modules, packaged as a portable Windows application.
- Added settings migration, module error isolation and snapshot retention so failed refreshes preserve the last usable data.

Python · Tk · Pillow · PyInstaller | [GitHub and releases](#)

Other Experience

Customer Service Supervisor

Jul 2024 – Present

Woolworths Group · Part time · Adelaide, SA

- Supervise front-line teams during peak periods and resolve escalated customer issues while maintaining service flow.
- Guide junior staff on service standards and coordinate with managers on daily operational priorities.