

Jinbao Liu

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Education

University of Melbourne

Bachelor of Science, Computing and Software Systems

Melbourne, Australia

Mar. 2024 – Expected Jul. 2027

Zhejiang University

Exchange Program, Mathematics; coursework in Probability and Statistics

Zhejiang, China

Dec. 2025 – Feb. 2026

Projects

MobileCowork: Cross-Platform AI Agent

Jan. 2026 – Present

Expo, React Native, TypeScript, Pyodide WASM

- Loaded Pyodide WASM in a hidden WebView to run Python in a fully sandboxed on-device environment, working around React Native's Hermes JS engine lacking WebAssembly support.
- Built a cross-platform AI agent app with Expo and React Native, compatible with any Anthropic-compatible endpoint, supporting streaming conversations and extended thinking.
- Implemented an agent tool loop with structured Tool Use (file I/O, shell, Python, JavaScript), Agent Skills and MCP extensions, streaming Markdown rendering, and office document generation (PPTX, Excel, PDF).

Kaggle: Competitions & Notebooks Expert

Oct. 2025

Kaggle

- Competitions Expert with 2 silver medals (rank 1,932 of 212,346; peak 1,682); Notebooks Expert with 1 gold, 2 silver, and 2 bronze medals (rank 887 of 61,390; peak 876).
- MAP: Charting Student Math Misunderstandings** (silver medal, top 3%): fine-tuned DeepSeek-math-7b, Hunyuan-7b, and a BERT-based model with PyTorch and Transformers, combining SFT with specialized text classification heads.
- Used Unsloth for memory-efficient training, ensembled the models, and applied LMDeploy with DeepSeek-R1-Distill-Llama-70B for randomized data augmentation; reached a peak public leaderboard rank of 14.

Experience

Full-Stack Developer Intern

Nov. 2024 – Jan. 2025

Lanyi Network Technology Co., Ltd

China

- Developed and maintained backend services using Python (FastAPI) and MongoDB, implementing RESTful APIs handling 10k+ daily requests.
- Managed Ubuntu server infrastructure including Docker container orchestration and CI/CD pipelines for automated deployments.
- Wrote Python and shell scripts to automate network administration tasks including log parsing, server health monitoring, and routine backup checks, replacing manual daily routines.

Leadership

Peer Mentor, Melbourne Plus: Team Leadership *Certificate*

Jan. 2025 – Present

University of Melbourne

Melbourne, Australia

Technical Skills

- Core Languages:** TypeScript, Python, Java, Rust, Swift, SQL
- Backend:** Spring Boot, FastAPI, MongoDB, ClickHouse, Docker, CI/CD
- AI Agents:** Claude API, Claude Agent SDK, OpenAI Agents SDK, Skills, MCP, Tool Use
- Machine Learning:** PyTorch, Transformers, Unsloth, NVIDIA NeMo, vLLM, LMDeploy
- Tools:** Git, Linux, AWS S3
- Web & Mobile:** JavaScript, HTML, CSS3, React Native, SwiftUI