

Kairui Liu

Front-End Engineer

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EDUCATION

University of Auckland

2022 - 2024

Data Science

🎓 Master Rank --

Southwest University

2019 - 2023

Computer Science(Data Science)

🎓 Bachelor Rank 3%

EXPERIENCES

ESR(Institute of Environmental Science and Research) • Flutter Development

2023.07 - Now

- Developed AI-driven pattern recognition software with Flutter.
- Implemented data visualization features.

The University of Auckland • Graduate Teaching Assistants

2023.07 - Now

- TA of COMPSCI 335. Led tutorials and answered student inquiries.

ByteDance(TikTok Company) • Front-End Development

2022.12 - 2023.04

- Website Translation SDK: Leveraging algorithmic optimizations, we achieved outstanding translation quality and swift load speeds. Inspired by Vue, we boosted mounting speed by 530% and update speed by a staggering 67,400%. The SDK is used within 3 department.
- Completed the reconstruction of the [Volctrans Extension](#). Optimized code isolation for plugin scenarios, front-end security, site adaptation, and cross-platform compatibility. Provided a PDF translation implementation plan and demo.

CERTIFICATES

The 7th China Collegiate Programming Contest Guilin Station

🥇 Gold Award

The 46th ICPC Asia Regional Contest Jinan Site

🥉 Bronze Award

Southwest University National Scholarship for Inspirational Students

2021

University of Auckland Transnational Education Partner High Achiever Award

2022

PROJECTS

🔨 ThreeCraft

Minecraft release based on Three.js.
Released multi-platform (PC, mobile, controller, VR) and multiplayer gaming.
Achieved full-frame rendering of about 200,000 blocks on integrated graphics.
Technology: Three.js, TypeScript, Vite
Links: [🌀 GitHub](#) [🌐 Preview](#)

🐱 Animal Ethics & Procurement OA System

Built a platform for Southwest University school lab ethics review and materials procurement/sales. 10,000 registered teachers/students, 20 suppliers, greatly improved lab efficiency.
Response: Frontend, Operations
Technology: Vue3, G2Plot
Links: [🌀 GitHub](#) [🌐 Preview](#)

▼ micro-vue

After studying "Vue.js Design and Implementation," released a simple Vue.
Released modules: runtime-dom, runtime-core, reactivity, and compiler-core. The reactivity module passed Vue official tests.
Technology: TypeScript, Jest
Links: [🌀 GitHub](#) [🌐 Preview](#)

🚀 Data View

A lightweight data maintenance, analysis, and visualization platform. Supports online data editing, analysis, and quick export.
Ranked 9th in the 2nd ByteDance Youth Training Camp.
Response: data preprocessing module (type validation/filtering/formula fields)
Technology: Vue3, TypeScript, Pinia
Links: [🌀 GitHub](#) [🌐 Preview](#) [👤 admin/123456](#)

SKILLS

- 😊 Experienced: JavaScript, TypeScript, and common features of ES6+.
- 😊 Experienced: Vue.js & React project development. Understand basic principles of Vue.js.
- 😊 Experienced: HTML, CSS, Less, Ajax, jQuery, have experience in performance optimization.
- 😐 Familiar: build (Vite, webpack, Gulp) & engineering tools (Prettier, ESLint, Git, husky).
- 😐 Familiar: Node.js, capable of building simple CRUD Web services using Express.
- 😐 Familiar: visualization frameworks (D3.js & Three.js). Implemented sites using them.
- 😐 Familiar: WebRTC APIs. Implemented a video call website based on WebRTC.
- 😊 Experienced: Linux useage and basic services config (DHCP, VSFTP, Samba, Rsync, LNMP+LVS).

Last build: 2023-09-01. [download the latest version.](#)