

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%

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).

EXPERIENCES

ByteDance(TikTok Company) Front-End Development(Internship) [React][Extension]2022.12 - 2023.04

- Completed web page translation SDK. Researched 7 competing products and summarized 2 implementation approaches. Proposed **technical goals of on-demand loading, update tracking, JavaScript transparency, structure and style preservation, and whole-section translation**. Developed a **translation optimization strategy based on node names** and implemented a minimal update tree recognition solution, drawing inspiration from Vue's update logic. Achieved multi-round synchronous tasks and micro-task **performance optimization**, increasing translation node extreme mounting speed by 5.3 times and extreme update speed by 674 times. Conducted one internal technical sharing session and promoted the solution across departments twice.
- Completed the reconstruction of the [Volctrans Extension](#) project. 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.

Technology: Three.js, TypeScript, Vite

Links: [🐙 GitHub](#) [🌐 Preview](#)

👉 micro-vue

Simple Vue.js Implementation.

Technology: TypeScript, Jest

Links: [🐙 GitHub](#) [🌐 Preview](#)