

Shiya Fu

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PERSONAL SUMMARY

Computer Science graduate (Mid-2025) actively seeking a Frontend Developer position. Passionate about solving complex problems through practical and performance-driven solutions. With over seven months of frontend development internship experience, I have worked in professional team environments and contributed to scalable, production-ready systems.

During my internship, I independently developed internal enterprise tools for managing and monitoring data migration workflows. Through both industry experience and personal projects, I have developed strong enthusiasm for modern frontend technologies, including React and Next.js, etc.

EXPERIENCE

Safety Champion

Full-time Frontend Developer Intern

05 2025 – 09 2025

Melbourne, VIC

- Built and delivered an internal migration admin platform using **React, TypeScript, Ant Design, and Refine**, enabling centralized management of migration workflows
- Developed batch-processing utilities (bulk document deletion, configuration reset, batch file migration), **reducing manual admin preparation by 60%. Reduced manual batch migration processing time from 6-8 hours to under 10 minutes by designing a single-click admin workflow**
- Implemented **OAuth2 SSO authentication** with automated token refresh and concurrent-safe request handling via Axios interceptors
- Implemented real-time incremental **log polling** for migration status monitoring, eliminating manual backend log checks

Raspect AI

Frontend Developer Intern

11 2023 – 03 2024

Hongkong

- Contributed to the development of an internal IoT monitoring platform using **Nuxt 3, Vue 3, TypeScript, Vuetify** for real-time facility and sensor data visualization
- Built **6+ modular**, reusable dashboard UI components, reducing duplicate code patterns and improving development velocity for new pages
- Collaborated with backend engineers to debug multi-API token refresh logic, reducing authentication-related integration bugs during staging deployment
- Authored **unit tests for Pinia stores** to enhance state reliability, participated in iterative code review processes with mentors, and gained hands-on exposure to **CI/CD workflows** and automated code formatting standards
- **Progressed from isolated component implementation to contributing within a structured production workflow, gaining hands-on experience in testing, code reviews, and collaborative frontend engineering practices**

PROJECTS

Orange's Folks Real-Time Chat Application (MERN)

- Built a full-stack real-time chat platform to explore scalable authentication and live messaging architecture beyond traditional REST-based systems. | Github Repo: [github/orangechat](#) | Live Demo: [orangechat.com](#)
- Implemented JWT HttpOnly cookie authentication and **Socket.io** single-instance push model, balancing security and deployment simplicity.
- Designed centralized state management (**Zustand**) for auth, socket lifecycle, and message synchronization, improving maintainability and side-effect handling.

- Planned migration toward Redis adapter, optimistic UI updates, and message pagination to enhance scalability and performance under high concurrency.
- **Stacks:** React, Nodejs, MongoDB, Express, Tailwindcss, Zustand, Socket.io, Javascript

Static Webpage: Personal Portfolio Website and Loading Page for MentalPhi

- Portfolio Github repo: Github Repo: [github/myportfolio](https://github.com/github/myportfolio), Loading Page Github repo: [github/loadingpage](https://github.com/github/loadingpage)
- Built a single-page responsive portfolio and loading page using React and Tailwind CSS, emphasizing multi-device adaptability and performance-conscious UI design
- Implemented responsive layouts with unified breakpoint control, including mobile-collapsible navigation, adaptive grid-based project sections, and timeline-style experience display
- Designed interaction and entrance animations purely with CSS (fade-in, marquee, hover transitions, glass morphism effects) to balance visual expressiveness with lightweight performance
- **Stacks:** React, Tailwindcss, Javascript

EDUCATION

The University of Melbourne 09 2023 – 06 2025
Master of Computer Science Melbourne, VIC

- **Research Focus:** Large Language Models (LLMs) in Mental Health Applications, with emphasis on instruction fine-tuning and reasoning retention in Small Language Models (SLMs).
- **Thesis:** Explored zero-shot to LoRA fine-tuning strategies for multi-task mental health classification and investigated performance optimization under resource-constrained settings. (2+ papers published based on this research; ArXiv: <https://arxiv.org/abs/2507.08031>)

University College Dublin 09 2019 – 06 2023
Bachelor of Science in Software Engineering Dublin, Ireland

- **Coursework:** Data Structures & Algorithms, Operating Systems, Databases, Distributed Systems, Software Engineering, Machine Learning
- **Projects:** Developed full-stack systems and enterprise-level tools following performance-driven and scalable design principles.

SKILLS

Frontend : React.js, Next.js, TypeScript, JavaScript, HTML5 / CSS, Tailwind CSS, Ant Design, Refine, Zustand

Backend & Full-stack: : Node.js, Express, MongoDB, RESTful API, JWT / OAuth2 authentication, Vercel

Engineering & Tooling: :Git / GitHub, CI/CD pipelines, Unit Testing (Vitest / Store testing), Jira, Postman