

Mia Sun

Electrical and Computer Engineering
University of Ottawa, Ottawa

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EDUCATION

•Master of Electrical and Computer Engineering

Sept 2024 - (Expected) May 2026

University of Ottawa, Ottawa

•Software Engineering, Bachelor of Engineering

Sept 2018 - Jul 2022

East China Normal University, Shanghai

EXPERIENCE

•Front-end Develop Engineer

Aug 2022 - Jun 2024

Youhuiwanjia Bank

- Developed and maintained customer-facing marketing campaign pages for the mobile banking app using **React** and **Redux**, enhancing user acquisition and engagement by enabling efficient state management.
- Designed and implemented a reusable campaign template system with **TypeScript** and **Webpack**, reducing page development and deployment time by **60%** (from 30 minutes to 12 minutes).
- Optimized front-end performance by **30%** using techniques such as **lazy loading**, **code splitting**, and **tree shaking** with **Webpack**, improving load times and responsiveness across mobile devices.
- Collaborated cross-functionally with designers and backend engineers, integrating **RESTful APIs** and ensuring seamless data flow between the front-end and back-end.
- Containerized front-end applications using **Docker** and deployed on **Kubernetes**, improving scalability and maintainability.
- **Tech Stack:** JavaScript, TypeScript, React, Redux, Vue, Node.js, HTML, CSS, Webpack, Docker, Kubernetes, Git, SVN.

•Front-end Develop Engineer (Intern)

Sept 2021 - Dec 2021

Shanghai Trusted Industrial Control Platform Co., Ltd.

- Developed an interactive dashboard for a **rail safety testing toolkit** used by Shanghai Metro, leveraging **Vue** to enable real-time security insights and improve data visualization.
- Enhanced UI/UX by implementing dynamic progress bars and modular components with **JavaScript** and **CSS**, increasing user satisfaction and usability.
- Optimized development workflow by configuring a **GitLab CI/CD pipeline**, accelerating deployment and reducing errors during code integration.
- **Tech Stack:** JavaScript, HTML, CSS, Vue, Ubuntu Linux, Webpack, Git, GitLab CI/CD.

PERSONAL PROJECTS

•Online Music Streaming Platform

A full-stack music streaming application

- Implemented **authentication and authorization** using Supabase, ensuring secure user login and registration.
- Integrated **Stripe for premium subscriptions**, enabling secure payment processing and recurring billing.
- Developed a **scalable backend with PostgreSQL**, handling user data, playlists, and song metadata efficiently.
- Styled the application using **Tailwind CSS**, creating a sleek and modern UI.
- **Tech Stack:** Next.js 13.4, React, Tailwind CSS, Supabase, PostgreSQL, Stripe.

•On-Campus Mental Health Support Platform

Built a web application providing psychological support services for students

- Built a **web application** providing psychological support services for students, including hotline scheduling.
- Developed a **MySQL database** to manage user records and real-time interactions.
- Integrated **Node.js and Axios** for seamless data retrieval and API communication.
- **Tech Stack:** Node.js, JavaScript, Python, MySQL, HTML, CSS.

TECHNICAL SKILLS

Languages: C/C++, Python, HTML+CSS, JavaScript (ES6+), TypeScript.

Web Dev: React, Redux, Vue, Node.js, HTML5, CSS3 (Sass/LESS), RESTful APIs.

DevOps Tools: Git, Docker, Kubernetes, Webpack, CI/CD (GitLab, Jenkins), Linux (Ubuntu).

Cloud/Databases: Supabase, Firebase, Relational Database(mysql)