

Shawn Li

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[GitHub](#)

[Portfolio](#)

SUMMARY

Full-stack software engineer specializing in React ecosystem and Django/Express.js backend development. Recent experience in developing web applications and data pipeline interfaces with a focus on user experience.

TECHNICAL SKILLS

Programming Languages: JavaScript/TypeScript, Python, Java, C

Front-End: HTML, CSS, React, Next.js, React Native, Zustand, React Flow, React Hook Form, React Query, Tailwind CSS

Back-End: Django, Express.js, NestJS

Databases: PostgreSQL, MongoDB

DevOps: Linux, AWS, Docker, Kubernetes, GitHub Actions

Testing & QA: Jest, React Testing Lib

WORK EXPERIENCE

Software Engineer

Rhombus AI, NSW, Australia

Aug 2024 - Present

- Engineered a dynamic data pipeline canvas interface using **Next.js**, **Tailwind CSS**, **React Flow**, **React Hook Form**, and **React Query**. Implemented an experimental chatbot feature with LLM integration for automated data pipeline construction, resulting in a more intuitive user experience.
- Evaluated commercial **user onboarding solutions**; designed and built an enhanced user onboarding flow that increased feature exploration and user adoption.
- Refined **Django-based REST APIs** by aligning them with best practices to boost readability, maintainability, and reliability.
- Collaborated closely with QA and UI teams to improve product reliability, address technical challenges, and propose best practice recommendations.
- Administered **AWS EKS** clusters and executed feature rollouts; produced technical documentation (flowcharts, diagrams) to facilitate effective knowledge sharing among team members; Implemented product documentation with Docusaurus, improving management and providing clear, accessible resources to both internal and external stakeholders.

Software Engineer Intern

Stay or Go, VIC, Australia

Nov 2023 - Feb 2024

- Developed a dynamic, responsive, and user-friendly fintech application module in **React**, **Django** and **PostgreSQL**, enabling users to easily visualize, comprehend, and evaluate various home loan products provided by different banks in Australia, thus enhancing ability to make informed financial decisions.
- Assisted in designing and executing an automated system for continuous derivation and updating of the Reference Rates of various home loan products provided by different banks in Australia, leveraging power of **Consumer Data Right** (CDR) data.
- Collaborated closely with other developers and UI designers from diverse backgrounds to ensure seamless integration and optimal functionality.

PROJECTS

E-Commerce Phone Case App

PixCase, Freelance

May 2024 - June 2024

- Developed a responsive online platform for custom phone case design and ordering, utilizing **Next.js**, **Tailwind CSS**, and **PostgreSQL**, and deployed on **Vercel**. [Try it!](#)
- Integrated **react-rnd** and **Canvas API** to facilitate flexible, drag-and-drop phone case customization
- Implemented secure payment processing using **Stripe** webhooks under an **event-driven architecture**.
- Ensured secure page access and smooth user experience through authentication callbacks.
- Enhanced the landing page with beautiful animations using **framer-motion** and custom **Tailwind CSS classes**.

Online Chat App

Talkative, Freelance

Feb 2024 - Mar 2024

- Developed a dynamic real-time chat application enabling users to search for others and initiate both one-on-one and group conversations. Utilized **React** for frontend, **ExpressJS** and **MongoDB** for backend, **RESTful** APIs for seamless data interaction, and **Socket.io** for real-time communication.
- Deployed application on AWS using **AWS Amplify**, **ECS Fargate** and **CodePipeline**, ensuring robust and scalable hosting.

Mobile Social Gaming App

The University of Melbourne

Aug 2023 - Nov 2023

- Directed a diverse team of 5 IT students in developing a map-based social gaming mobile application, enabling players to compete in real-time by visiting points of interest, implemented in **React Native**, **ExpressJS**, and **RESTful API** for seamless multi-player interaction. [View Demo!](#)
- Enabled context-awareness within the App, offering players automated routing advice for efficient navigation, leveraging **Google Map API**.
- Implemented a dynamic scoring and ranking system to foster competitive gameplay, alongside real-time position tracking to ensure an engaging and interactive user experience, using **WebSocket** API.

Melbourne CBD Tourist Guiding App

The University of Melbourne

Sep 2023 - Oct 2023

- Led a 4-student team to create an interactive map-based web application using **Shiny** in R, enhancing navigation and exploration for Melbourne CBD newcomers. [View Demo!](#)
- Designed a user-centric interface displaying points of interest, city walk paths, street views, and weather conditions, improving visitor experiences through dynamic visualizations.
- Integrated real-time geographic and weather data, facilitating informed planning and exploration for users.

EDUCATION

The University of Melbourne

Melbourne, VIC, Australia

Master of Information Technology (with Distinction, WAM: 83/100)

Jul 2022 - Jul 2024

- Coursework including: Software Modelling and Design, Distributed System, Web Security, Mobile Computing System Programming, Information Visualization, Machine Learning

RMIT University

Melbourne, VIC, Australia

Bachelor of Mechanical Engineering (1st Class Honours, WAM: 92/100)

Jul 2018 - Jul 2020

Shandong University

China

Bachelor of Mechanical Engineering (WAM: 91/100)

Sep 2016 - Jul 2018

ACHIEVEMENTS

- **Dean's Honours List for Academic Excellence in 2023** - The University of Melbourne
- **Melbourne Graduate Scholarship Awarded in 2022** - The University of Melbourne
- **Vice-Chancellor's List for Academic Excellence in 2020** - RMIT University
- **The Second Prize Scholarship Awarded in 2016** - Shandong University