

Vivienne Gu

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Summary

Passionate and innovative IT professional specializing in full-stack development with expertise in React, TypeScript, Next.js, Prisma, PostgreSQL, and Tailwind CSS. Strong problem-solving skills and experience working in agile environments. Adept at collaborating with cross-functional teams, effectively communicating complex ideas, and delivering scalable, user-centric web applications.

Technical Skills

Frontend: Next.js (Full-Stack), React, TypeScript, Tailwind CSS, MUI, Bootstrap

Backend: Node.js, Prisma, RESTful API, GraphQL

Database: PostgreSQL, MySQL, Prisma ORM

Tools: Git, Docker, AWS, Vercel, Stripe, CI/CD

Project Experience

SociallyPro - Full-Stack Social Media Platform – React, Next.js, TypeScript, MySQL, Tailwind CSS

[website](#)

- Built a full-stack social media application using **React**, **Next.js**, **TypeScript**, and **MySQL**.
- Implemented **Clerk authentication** for secure user login and role-based access control.
- Utilized **Prisma** ORM for efficient database management and **CRUD** operations.
- Developed server actions and data fetching to optimize performance.
- Integrated useOptimistic and useActionState hooks to enhance user interactions and improve UI responsiveness.
- Designed a mobile-first responsive UI with **Tailwind CSS**.
- Deployed on **Vercel** with continuous integration (CI/CD).

Massimo Restaurant - Full-Stack Food Ordering Platform - React, Next.js, TypeScript, PostgreSQL, Tailwind CSS

[website](#)

- Developed a restaurant and food delivery platform using **Next.js**, **React**, **Prisma** ORM, and **PostgreSQL**.
- Implemented **Auth.js** authentication with session-based user management.
- Integrated **Stripe** payment processing for secure and seamless transactions.
- Utilized **Zustand** for global state management, enhancing cart functionality.
- Designed role-based authorization for customers and admins with **Prisma** and **NextAuth**.
- Applied **React Query** for optimized data fetching and state synchronization.
- **Dockerized** the application for efficient local development and deployment.
- Deployed on Vercel with **CI/CD** integration.

Education

University of Melbourne - Master of Information Technology (Artificial Intelligence)

2021 - 2023

Key Courses: Algorithms, Machine Learning, NLP, Advanced Databases, Software Engineering

Chang Gung University - Bachelor of Information Management

2016 - 2020

Key Courses: JAVA, SQL, Web Development, Economics, Statistics

Competition: First Place in University Hackathon Robotics Competition

Certificates

ISO27001 Information Security Management System Internal Auditor to level C

Reference

Professional references available upon request.