

# Alex Yeh

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## WORK EXPERIENCE

### FULL STACK DEVELOPER | IMERSIVE

Taipei | Jul 2024 –

- Engineered data aggregation systems to streamline product information collection, enhancing data accuracy and retrieval efficiency.
- Developed RESTful back-end services with PostgreSQL, deployed on Google Cloud infrastructure for high availability.
- Delivered cross-platform mobile applications using Flutter, reducing development time through reusable codebase.

### FRONTEND DEVELOPER | ACCUENERGY

Toronto, ON | Aug 2021 – Jun 2022

- Designed and implemented an interactive web interface of a power meter using Vue3. Supported role-based access (admin/view-only) for users.
- Designed and built real-time configuration tools for power meters, reducing user setup time and improving monitoring efficiency.
- Transformed raw API data into interactive dashboards (graphs/tables), enhancing data comprehension and decision-making for end-users.
- Maintained and modernized legacy interfaces (Vue2, React) to align with updated design systems and API integrations, ensuring consistency and improved performance.

## PROJECTS

### QUIZ APP

NEXT.JS / SUPABASE / AUTH.JS

- Developed a full-stack educational platform using Next.js 14, TypeScript, and Supabase, implementing server-side rendering and API routes for optimal performance
- Engineered secure authentication system using NextAuth.js with Google OAuth, featuring protected routes and role-based access control
- Implemented real-time data synchronization with debounced saves and batch processing, reducing server load while maintaining data integrity
- Built responsive UI components using Tailwind CSS with accessibility features and interactive animations
- Created custom React hooks for state management, keyboard navigation, and progress tracking with error handling and retry mechanisms
- Designed type-safe architecture using TypeScript, ensuring code reliability and maintainability across the application

## SKILLS

**Frontend:** Vue3/2, React, Angular,  
HTML/CSS, Tailwind

**Backend:** Node.js, Express, REST APIs,  
Python

**Mobile:** Flutter

**Databases:** PostgreSQL, MongoDB,  
Google Cloud SQL

**Tools:** Git, Docker, Figma,  
Google Cloud

## EDUCATION

### University of Toronto

HONOURS BACHELOR OF SCIENCE