

# ANDREW SHEN

## Frontend Engineer | TypeScript | Next.js | React.js

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### SUMMARY

A 7-year track record in frontend development, specializing in building scalable, low-latency, and responsive web applications using TypeScript, React, and Next.js. Experienced in mentoring junior developers and leading cross-functional teams to achieve high-level objectives. Proven ability to optimize performance metrics, improve development efficiency, and integrate cutting-edge technologies, like AI, Web3, and 3D visualization.

### PROFESSIONAL EXPERIENCE

#### Full Stack Engineer

##### Web MR solution (Mindtrix Ltd.)

Jul 2022 - Present

Remote, Taiwan

- Implemented JSON-LD, server components, and image prefetching to achieve perfect SEO scores in Core Web Vitals for Next.js projects.
- Developed responsive 3D asset React components that reduced mobile load time by 40%.
- Built an AI-powered chatbot MVP with React for product inquiries with OpenAI's Assistants API and GPT-4o, saving 300+ customer service hours monthly, including off-hour support.
- Designed the database schema and developed secure RESTful API services with over 70% coverage unit tests using Nest.js, Jest, and MariaDB, ensuring compliance with Fortify and Mend analysis for a leading Taiwanese semiconductor manufacturer.

#### Frontend Engineer

##### WaCare TeleHealth (La Vida Tec Co., Ltd)

Mar 2017 - Jun 2022

Taichung, Taiwan

- Designed and implemented reusable, scalable React components to reduce team development time by 40%.
- Mentored two junior frontend developers by conducting React code reviews and maintaining conventions, cutting onboarding time by 50%.
- Introduced TypeScript to Next.js projects, improving code reliability and reducing bug-fixing time by 35% before production in 2019.
- Developed three responsive and cross-browser compatible websites (Health Forum, Health CRM System, Healthcare Course) and streamlined UI/UX with designers under a full software development lifecycle.
- Collaborated with backend engineers to reduce the WaCare app load time by 73%, improving performance from 3000ms to 800ms through redesigned UI threads and optimized API caching.
- Implemented end-to-end encryption on the React frontend using asymmetric cryptography to meet the security regulations.
- Collaborated with DevOps to streamline the Continuous Integration pipeline, decreasing the deployment time from 9 minutes to 5 (44% improvement) by shrinking image size.

#### ERP Software Engineer (Co-op)

##### Frensworxz Software Ltd.

May 2015 - Feb 2016

Taipei, Taiwan

- Integrated the former member system into the "NetSuite" cloud service.
- Integrated payment and logistics APIs using JSP for the e-commerce site of a well-known Japanese department store.

### INTERNATIONAL EXPERIENCE

##### Flow Blockchain Hackathon

Apr 2023

Vancouver, Canada

- Awarded for integrating a hybrid custody wallet with Web 2.0 SSO UI/UX.

##### AI & Big Data Expo

Dec 2018

California, USA

- Illustrated how WaCare monitors personal health records from wearable devices to predict health risks at the Santa Clara Convention Center.

### SKILL

- Programming Languages**  
JavaScript (ES6+), TypeScript, Java, Kotlin
- Web Languages**  
HTML, Pug, CSS, Sass/SCSS
- UI Libraries and APIs**  
React.js 19, React Hook Form, Zod, Three.js, WebXR, React Three Fiber
- State Management Libraries and APIs**  
Redux Toolkit, Redux-Saga, Zustand, Context API
- Frameworks**  
Next.js 15, Nest.js 10, Tailwind CSS 4
- CMS**  
Sanity, Strapi, Wix
- HTTP Requests Library and APIs**  
Axios, Fetch API
- AI Integrations**  
GPT-4o, DeepSeek-V3, n8n
- API Architectures**  
RESTful API, GraphQL
- Authorization and Cryptography**  
OAuth 2.0, JWT, RSA/ECC/AES encryption
- Testing Libraries**  
Cypress, Jest, React Testing Library
- Database Schema Designs**  
MySQL, MariaDB, PostgreSQL, MongoDB
- Continuous Integration and Deployments**  
Gitflow, Dockerization, GCP, AWS, Vercel, Nginx, Cloudflare
- Operating Systems**  
CentOS, Debian, Ubuntu
- Productivity tools**  
Jira, Confluence, Slack, Figma

### STRENGTH

- Growth Mindset**  
Proactively recommended initiatives, like upgrading SPA to Next.js, adding type-safe tools, and holding workshops for teams' continuous improvement.
- Problem-solving Mindset**  
The hands-on experience in the WaCare TeleHealth startup cultivated my ability to interpret ambiguous requirements into approachable tasks.
- Cross-functional Teamwork**  
Coordinated agile development across Design, Backend, Frontend, QA, DevOps, and Marketing teams to close gaps and deliver on time.

### EDUCATION

Bachelor's Degree in Information Management  
Yuan-Ze University

Feb 2012 - Jun 2016

Taoyuan, Taiwan