# 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 🛛 🗣 Re
- 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 Al-powered chatbot MVP with React for product inquiries with OpenAl'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

- 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)

Frensworkz 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

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

Al & Big Data Expo

• 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 and Guidelines HTML, Pug, CSS, Sass/SCSS, Web Content Accessibility Guidelines (WCAG)
- 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
- Al 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, Microservices
- Operating Systems CentOS, Debian, Ubuntu
- Productivity tools
   Jira, Confluence, G Suite, Slack, Figma

#### **STRENGTH**

- Growth Mindset
   Proactively reco
- 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
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