

ANDREW (HO-KUAN) SHEN

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

in <https://linkedin.com/in/andrewshen55> <https://andreson.io>

(437) 557-6235 andreson.works@gmail.com Markham ON, Canada

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 and 3D visualization.

WORK EXPERIENCE

Frontend Engineer

Web MR solution (Mindtrix Ltd.) Jul 2022 - Present Remote, Taiwan

- Decreased 40% of mobile load time by optimizing the web performance of Core Web Vitals under the Next.js projects.
- Developed a 3D and AR try-on service for furniture brands by adopting Three.js and WebXR API to improve customer satisfaction by 40%.
- Built an AI chatbot MVP to answer furniture product inquiries by integrating OpenAI's assistants and fine-tuning API using GPT-4o model.

Frontend Engineer

WaCare TeleHealth (La Vida Tec Co., Ltd) Mar 2017 - Jun 2022 Taichung, Taiwan

- Designed and implemented reusable, scalable components based on a style system and compound components, reducing team development time by 40%.
- Mentored two junior frontend developers by conducting code reviews and maintaining shared convention files, cutting their 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.
- Built end-to-end encryption in frontend using asymmetric encryption to meet the mobile security regulation.
- Collaborated with DevOps to streamline the CI pipeline, decreasing the deployment time from 9 minutes to 5 (44% improvement) by shrinking image size.

ERP Software Engineer (Co-op)

Frensworz Software Ltd. May 2015 - Feb 2016 Taipei, Taiwan

- Integrated the former member system into the "NetSuite" cloud service.
- Integrated the payment and logistic APIs with JSP for an e-commerce website of a well-known Japanese department store.

INTERNATIONAL EXPERIENCE

Flow Blockchain Hackathon Apr 2023 Vancouver, Canada

- Awarded by 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 Santa Clara Convention Center.

SKILLS

- Programming Languages
JavaScript, TypeScript, Java, Kotlin
- Web Languages
HTML, Pug, CSS, Sass/SCSS
- UI Libraries and APIs
React.js19, React Hook Form, Zod, Three.js, WebXR, React Three Fiber
- State Management Libraries and APIs
Redux Toolkit, Redux-Saga, Zustand, Context API
- Frameworks
Next.js15, Nest.js10, Tailwind CSS4
- CMS
Sanity, Strapi, Wix
- HTTP Requests Library and APIs
Axios, Fetch API
- API Architectures
RESTful API, GraphQL
- Authorization and Cryptography
OAuth2.0, JWT, RSA/ECC/AES encryption
- Testing Libraries
Jest, React Testing Library
- Database Schema Designs
MySQL, MariaDB, PostgreSQL, MongoDB
- CI/CDs
Git, Gitflow, Dockerization
- Operation Systems
Centos7, Debian12, Ubuntu24
- Productivity tools
Jira, Confluence, Slack, Figma

STRENGTHS

- 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 WaCare TeleHealth startup cultivated my ability to break down abstract problems into approachable tasks
- Cross-functional Teamwork
Coordinated agile developments with the Design, Backend, Frontend, QA, DevOps, and Marketing teams to remove gaps and deliver tasks on time

EDUCATION

Bachelor's Degree in Information Management
Yuan-Ze University

Feb 2012 - Jun 2016 Taoyuan, Taiwan