

Ju Yeon Seo

Frontend Developer

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SUMMARY

Frontend Developer building scalable web and mobile applications with React and TypeScript. Experienced in data-driven systems, performance optimisation, and end-to-end product delivery.

SKILLS

- Frontend: React, TypeScript, JavaScript, Vite
- Mobile: React Native
- Backend: Node.js, NestJS, TypeORM
- Database: MySQL
- Tools & DevOps: Git, Docker, Sentry, AWS S3, Cloud Functions, Figma

WORK EXPERIENCE

Frontend Developer

Healthcare Startup | Seoul, Korea | Jul 2022 - Dec 2024

- Developed and maintained a React and TypeScript-based B2B health risk analysis platform
- Built data-driven features including dashboards, reporting systems, and data processing workflows
- Contributed to end-to-end product development, from requirements gathering to deployment
- Collaborated with backend developers, designers, and stakeholders to deliver product features and improve user experience
- Supported hiring and onboarding of new team members through technical evaluations
- Developed demo applications for exhibitions to showcase product capabilities
- Led development and launch of a cross-platform mobile application using React Native and NestJS
- Contributed to deployment and environment setup using Docker and containerised environments

EDUCATION

Master of Information Technology

Queensland University of Technology | 2025- Present
Expected Graduation: 2027

PROJECTS

Health Risk Analysis Platform

React, TypeScript, React Query, Redux Toolkit, Vite, Axios, Docker, Sentry

- Led end-to-end development of a health risk analysis platform, from initial design through deployment and maintenance
- Built data-driven features including report history, filtering, pagination, downloadable reports, and dashboards
- Implemented multi-level expandable data tables to manage complex client structures
- Developed condition-based filtering aligned with business rules
- Managed API state and authentication flows using Axios, React Query, and Redux Toolkit
- Implemented OCR workflows for Excel, PDF, and image uploads to automate data processing and report generation
- Built reusable UI components including tables, file uploads, spreadsheet views, and dynamic forms
- Improved page load performance by 95% through asset and loading optimisation
- Containerised development and production environments using Docker and Docker Compose
- Integrated Sentry for error tracking and performance monitoring, improving issue resolution and system stability

Cross-platform Health Risk Analysis App

React Native, TypeScript, NestJS, TypeORM, MySQL, AWS S3, Docker, Sentry

- Built a cross-platform mobile application for iOS and Android with integrated backend services
- Implemented Apple and Google Sign-In with JWT-based authentication, refresh token handling, and session management
- Developed NestJS APIs for risk analysis, report generation, report history, and PDF export workflows
- Integrated external analysis APIs and transformed responses into structured reports with risk scores, factors, and recommendations
- Applied AES-256 encryption for sensitive user and report data using TypeORM lifecycle hooks
- Implemented PDF storage with AWS S3 and asynchronous email delivery using serverless functions
- Built multi-step health data input flows with validation, consent handling, unit conversion, and multilingual support
- Added monitoring and logging using Sentry, Winston, and Telegram alerts
- Configured Docker-based deployment, PM2 process management, and automated testing setup (Jest, Appium)