

Hyogeun Kim

SOFTWARE ENGINEER · FRONTEND ENGINEER

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“Building robust, data-intensive frontend architectures with algorithmic precision.”

Summary

Frontend Engineer specializing in scalable UI architecture, performance engineering, and Core Web Vitals optimization. Experienced in designing maintainable systems (Feature-Sliced Design) and solving complex interaction problems. Strong CS fundamentals proven through competitive programming and published research.

Work Experience

AwareLab Inc.

FRONTEND ENGINEER

Seoul, S.Korea

Apr. 2025 - Present

- Achieved a **46% improvement** in initial load performance (Bundle Size: 253KB → 136KB) by implementing priority-based Webpack chunking and dynamic imports for Stripe modules.
- Dominated the top search result (Rank 3 → 1) for brand keywords by conducting rigorous SEO auditing with **SEMRush** and optimizing Core Web Vitals.
- Re-architected the platform using **Next.js 16 (App Router)** and **Feature-Sliced Design (FSD)**, establishing a scalable layer structure (entities/features/widgets) to decouple business logic.
- Built a secure membership system integrating **Stripe** and **Directus CMS**, ensuring type safety via automated schema generation and implementing role-based access control (RBAC).
- Resolved critical rendering instability in financial charts via visibility-event handling and engineered a **Promise-based caching hook** to eliminate GSAP duplicate execution errors.

DAQDA Co.

FRONTEND ENGINEER

Seoul, S.Korea

Jun. 2024 - Mar. 2025

- **Project: The Prestige** (Cemetery Visualization Service)
- Migrated legacy ASP.NET service to **Next.js**, optimizing **LCP** via Image CDN and Lazy Loading to enhance rendering speed.
- Integrated **Kakao Map API** with **Recoil** for global state management, refactoring page-reload filtering into seamless in-page tab switching.
- Established a CI/CD pipeline using **Vercel** to automate deployments for the SSR-based architecture.
- **Project: Gift Mall** (Return Gift E-commerce Platform)
- Selected **Vite** and **React** (with Tailwind CSS) to maximize development velocity for an SEO-agnostic internal service.
- Architected robust state management using **Zustand** and **Immer**, ensuring immutability and efficient updates for complex order forms.
- Implemented data persistence using **LocalStorage**, preventing loss of contact information during page drop-offs.

Key Projects & Research

Software Maestro 14th | Ministry of Science and ICT

LEAD FRONTEND DEVELOPER (TRAINEE)

Seoul, S.Korea

Apr. 2023 - Nov. 2023

- **Project: Kumo Factory** (No-code Cloud Architecture Builder SaaS)
- Architected a highly interactive cloud visualization engine using complex SVG DOM manipulation and infinite-zoom algorithms.
- Implemented Server-Sent Events (SSE) to visualize real-time deployment logs, ensuring immediate feedback loops for users.
- Optimized Server-Side Rendering (SSR) logic to enhance SEO indexability and initial loading performance.

Intelligent Systems Lab | SeoulTech

UNDERGRADUATE RESEARCHER

Seoul, S.Korea

Mar. 2021 - Feb. 2023

- **Research: Deep Learning Style Transfer** (Computer Vision)
- Developed a CNN-based model to modify environmental attributes (e.g., season, time) of photos, improving rendering quality.
- First Author: “Image Relighting Based on Normal and Albedo Maps Prediction” (CIA 2022 International Workshop).
- **Research: VR User Tracking Framework** (HCI & Virtual Reality)
- Engineered a redirection algorithm in CAVE environments to prevent physical collisions and guide user orientation.
- First Author: “Towards Interactive Group Experiences in Virtual Reality” (CIA 2023 International Workshop).

Skills

Languages	TypeScript, JavaScript (ES6+), Python, C++
Frontend	React, Next.js, HTML5/CSS3, Recoil, Zustand, React Query, Tailwind CSS, GSAP
Backend & DevOps	Node.js, AWS (S3, CloudFront), Docker, GitHub Actions, Vercel
Data & AI	PyTorch, Pandas, NumPy, OpenCV, Computer Vision

Honors & Awards

Nov. 2018 **Honorable Mention**, ACM-ICPC Seoul Regional Contest (Programming Contest)

Seoul, S.Korea

Apr. 2022 **2nd Prize Winner**, GBDCON Data Analysis Hackathon

Seoul, S.Korea

Community & Leadership

Google Developer Student Clubs (GDSC) SeoulTech

Seoul, S.Korea

CORE MEMBER / FRONTEND ENGINEER

Sep. 2022 - Apr. 2023

- **Project: Shared Refrigerator** (Geolocation-based Community Platform)
- Maximized perceived performance by implementing Optimistic Updates with React Query, ensuring a responsive user experience during data mutations.
- Designed and integrated a map-based landing page, optimizing data synchronization logic for location-based services.

Education

Seoul National University of Science and Technology

Seoul, S.Korea

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Mar. 2018 - Feb. 2024