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.   *Seoul, S.Korea*
FRONTEND ENGINEER   *Apr. 2025 - Present*

   Aware Membership Platform & **Internal CRM Development**

- 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 and internal CRM integrating **Stripe** and **Directus CMS**, ensuring type safety via automated schema generation.
- 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.   *Seoul, S.Korea*
FRONTEND ENGINEER   *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 **Local Storage**, preventing loss of contact information during page drop-offs.

Key Projects & Research

Software Maestro 14th | Ministry of Science and ICT   *Seoul, S.Korea*
LEAD FRONTEND DEVELOPER (TRAINEE)   *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.

Computer Graphics Lab | SeoulTech   *Seoul, S.Korea*
UNDERGRADUATE RESEARCHER   *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*