Youngjoo Lee

Frontend developer with 5 years of experience in large-scale rendering optimization, shipping and operating apps, and building AI features into products and measuring them.

epww1502@gmail.com github.com/epww1502 Portfolio (KR) → Career (KR) → Demos →

- **Large-scale rendering** · 100×100 chart render ~10,000ms → 100ms; frozen whole-sheet merge now within 2s
- **Shipping and operations** · iOS, Android and web from one codebase; fixes ship by OTA without store review
- **Measuring AI features** · 240 suggestions scored: 97.9% on-request, 98.4% real places (personal project Dolt2)

EXPERIENCE

Gwanak Lab · AI fintech startup

2025.01 – Present · Frontend (frontend lead since 2026.05)

GLAB · AI digital private banker app

2025.12 – Present

AI investment advisory app for retail investors (launched 2026.07). Own the frontend from planning to release and operations; frontend lead since 2026.05 (release schedule, two teammates). Wrote 274 of the team's ~540 feature PRs and merged 156 teammates' PRs through code review.

- Shipped iOS, Android and a responsive, cross-browser web app from one codebase: 5 releases in 4 months
- AI chat streaming re-rendered every message on each token; limited it to the last message
- Fixed a race condition that froze the live ranking; price animation renders only changing rows (29 → 3+)
- Kakao, Google and Apple sign-in and account deletion; Apple deletion on Android solved with a web bridge
- Set up S3 and CloudFront; one push deploys web to 3 environments and OTA, skipped if a native build is due
- Designed and built the 21-screen back office as a React SPA, following web standards and accessibility (ARIA)
- Started without designs: built a design system (components, theme tokens); news opens in an in-app WebView

Service App Store · Google Play · Website · Press (KR)

Expo · React Native · TypeScript · TanStack Query · Zustand · NativeWind · Firebase Auth **Details (KR) →**

LG CNS COP · Generative AI image editing platform

2025.01 – 2025.11

LG CNS client project (React SPA). Built the whole back-office (ADMIN) frontend and the service's shared base.

- Fixed duplicate token refreshes and lost requests on simultaneous 401s: refresh once, then resend
- Built every ADMIN screen (usage, credits, accounts, groups, notices, policies) with 4-role access, on time
- Added permission limits, amount validation and a confirmation step to credit issuance
- Introduced pre-commit lint and type checks and automated S3 and CloudFront deploys
- Unveiled at AI Festa (press); Sandoll Cloud AI Studio beta via LG CNS–Sandoll partnership (~2,000 users)

React · TypeScript · TanStack Query · Zustand · Zod · Tailwind **Details (KR) →**

TmaxGaia

2022.01 – 2025.01 · Web office frontend

GAIA OFFICE Chart

2022.01 – 2025.01

Charts for the web office suite. From 2022.09, owned the whole chart feature and mentored about 5 new hires.

- Rendering per series instead of per data point cut components from 10,000 to 100: **100×100 chart render about 10,000ms → 100ms**, 30×30 insert 11s → 2s
- Designed the chart model and component tree, OOXML import/export, and error bars matching Excel's values
- Tested chart models, undo/redo commands and rendering hooks with Jest and React Testing Library (46 files)

React · TypeScript · MobX · Victory (built on D3) **Details (KR) →**

GAIA OFFICE Cell · Web spreadsheet

2022.06 – 2025.01

Number formats, merging and pivot tables. Researcher on a government (MSIT) R&D project (2022.06 – 2023.12).

- Whole-sheet merge (about 17 billion cells) froze the app; copying only the data range finishes within 2s (wide ranges 10s → 1.5s)
- Batched canvas rendering to once per command: 5 render calls → 1
- Implemented Korean date, elapsed time, currency and decimal rules missing from the number format library
- Handled about 555 issues in 2 years (35% outside my features); designed section management and DB for the auto-fill task force

React · TypeScript · Canvas · Java **Details (KR) →**

PERSONAL PROJECTS · SOLO, BUILT WITH A CODING AGENT (CLAUDE CODE)

Dolt2 · Shared bucket list app

2026.10 – Present · Released on iOS and Android

- Change-based sync that loses nothing under concurrent edits, verified with Jest; 58 RLS policies
- AI suggestions (Claude API) scored on a 24-request eval set by rules and a judge model; ~$0.001/call

Expo SDK 58 · Supabase · Zustand · Claude API · Jest **Details (KR) →** **App Store →** **Google Play →** **Website →** **GitHub →**

Golt2 · AI trip planner web

2026.11 – Present · Live

Turns one line of trip conditions into day-by-day routes on a map; shared pages use Next.js SSR; linked with Dolt2.

- Only places confirmed by Kakao search (name and area match) go on the map, so made-up places never appear
- Streaming one place per line and checking each as it arrives, in parallel: 2-day trip **26 s → 5.8 s**

Next.js · Claude API · Supabase Edge Functions · Kakao API **Details (KR) →** **Website →**

mochi-pet · Desktop pet shared with friends

2026.11 – Present · Released on macOS and Windows

- Transparent full-screen window that takes clicks only on pets and bubbles (React areas + Rust global cursor)
- One tag ships signed macOS (2 targets) and Windows builds with auto-updates; 102 Vitest tests

Tauri v2 · Rust · React · Supabase Realtime · Vitest **Details (KR) →** **GitHub →** **Download →**

SKILLS

Core	TypeScript, React, React Native (Expo), TanStack Query, Zustand, Tailwind/NativeWind
Experience	Next.js, Claude API (LLM integration and evals), MobX, Canvas, Firebase Auth, Supabase, EAS Build/Update, GitHub Actions (CI/CD), AWS cloud (S3·CloudFront), PostHog, Zod, React Hook Form, Jest, React Testing Library, Tauri (Rust), Java·SQL

EDUCATION · OTHER

Oregon State University	Computer Science (Applied CS option, security focus) · GPA 3.89/4.0, Summa Cum Laude · 2017.09 – 2021.06
KOREATECH	Computer Engineering · 2013.02 – 2018.07 · transferred to OSU while enrolled (2017.09)
Languages · Military	Korean (native), English (conversational, 5 years abroad) · Military service completed (ROK Air Force)

AWARDS

BeaverHacks Spring 2021 (OSU fintech hackathon) · 3rd of 17 teams

2021.04

Crypto auto-trading bot (team of 2). Built the volatility breakout strategy and the Upbit API integration; reports trades to Slack.

Python · Upbit API · PyQt5 **Result →** **GitHub →**