Hyunjung Joun

Frontend Engineer

GitHub

SUMMARY

Frontend engineer building React/TypeScript web applications and React Native/Expo apps. I clarify API types and complex state flows through schemas, cache update rules and shared UI. My work connects user input with server results and failure recovery in map exploration, thesis review and purchase-order workflows.

PROJECT EXPERIENCE

Recent dates show commit activity, not employment, project completion or continuous involvement.

Foodservice e-commerce search admin & evaluation

2026.08–2026.09

Search admin, evaluation tools and test-set API development

`React, TypeScript, Vite, Valibot, OpenAPI, FastAPI, SQLite, Docker`

Built nDCG/MRR search comparison screens and test-set storage, editing and CSV APIs. Developed dictionary/index management, search simulation and ranking settings, with API response validation, Docker setup and workflow-based integration test scenarios.

Foodservice e-commerce maintenance

2026.04–2026.09

Maintenance contributor for legacy web and Android/iOS WebView apps

`Java/JSP, JavaScript, jQuery, Kotlin, Gradle, Swift/SwiftUI, WebKit, Xcode`

Maintained promotions, buy-one-get-one products and order displays; standardized NICE identity lookup and integrated a new customer search API. Separated environments with Android flavors and iOS schemes/xcconfig, improved WebView external/store navigation, and documented execution and archiving.

University thesis review platform & admin

2025.09–2026.08

Responsible for the admin frontend; user platform developed with one other developer

`React, TypeScript, Vite, Expo, React Native, Kotlin, Swift, TanStack Query/Table, Valibot, OpenAPI, react-pdf`

Built shared admin forms, filters, tables, pagination, review management and presentation scheduling. Self-hosted PDF.js assets to fix CJK rendering. Validated URL filters and pagination with schemas and mapped API enums and optional fields to screen models. Coordinated post-assignment updates and chat WebSocket, polling and cache invalidation flows to reflect results and unread states. Established the user UI foundation from existing components and university design guidelines; unified month/week scheduling and overlap handling. Implemented PASS authentication return flows, iOS PDF virtualization and Kotlin/Swift Expo badge modules driven by server unread counts.

Admin activity: 2025.09–2026.08; user platform activity: 2026.01–2026.08

Location-based social platform app & map webview

2025.04–2026.03

Map-focused app features; map webview and React Native bridge design and implementation

`React Native, Expo, React, TypeScript, Google Maps, Supercluster, WebView, TanStack Query, Zustand`

Connected search, camera movement, marker selection and bottom sheets through a typed app/webview bridge. Improved location permissions, caching, OS location retrieval and map/sheet gestures. Controlled map updates with Supercluster, viewport clustering, idle events and marker memoization. Developed photo uploads, stamp events, follow and home features; contributed to authentication and authorization. Included coordinates in search cache keys, handled keyword/location combinations and guarded queries without location data. Standardized empty and nullable responses with shared schemas, and connected feed hiding and reporting to rollback and related cache updates.

App activity: 2025.04–2026.03; map webview activity: 2025.06–2026.03

Agricultural e-commerce operations admin

2025.04–2026.08

Initial foundation; purchase orders, order matching and UI access control after rejoining

`React, TypeScript, Vite, TanStack Query/Table, Valibot, FSD, OpenAPI`

Established React/Vite, FSD, routing and shared UI. On rejoining, built purchase orders, external-order product matching and related claims. Connected button/route access control to the permission API through domain policies and hooks. Automated OpenAPI collection, diffs and reference client generation. Adapted DTOs and Valibot validation to response changes, ID/date types and page/cursor pagination. Connected purchase-order holds, document creation, email sending and Excel downloads with confirmation, error handling and list updates.

Outdoor advertising agency platform

2024.12–2025.05

User web map, detail views and frontend foundation; admin frontend

`Next.js, React, TypeScript, Naver Maps, TanStack Router, TanStack Query, Turborepo`

Connected Naver Maps search, location and place details; used Next.js parallel routes for images and reviews. Built admin URL filters, server pagination and cookie authentication flows.

Sports collectibles trading platform & admin

2024.08–2025.04

Joined the platform mid-project; responsible for the admin frontend

`Next.js, React, TypeScript, TanStack Query, Zustand`

Joined during schedule delays to improve listing, bidding, auction completion and purchase confirmation. Fixed coupon selection/reset and shipping calculations, separating product/shipping amounts in purchase requests. Built shared admin API clients, request schemas and error handling, plus banner ordering, featured-product placement and classification, and coupon management.

Platform activity: 2024.08–2025.02; admin activity: 2024.09–2025.04

Wallet analysis prototype

2024.07, 1 month

Entire frontend implementation

`React, TypeScript, React Flow, react-force-graph-2d, Electron`

Built fund-flow and expandable address-relationship graphs, choosing libraries for each task and implementation cost. Handled mock-data transformation, layouts, interactions and Electron packaging.

Mock-data prototype. Performance and usability with production data were not validated.

Archon magazine, admin and renewal

2023.07–2024.06

Personal projects; web app and API development

`JavaScript, React, Next.js, TypeScript, React Query, Zustand, Express, MariaDB`

Built a JavaScript magazine with routing, article filters, sorting and bookmarks; added a React admin and Express/MariaDB CMS API. Renewed it with Next.js/TypeScript, server/client components, mobile navigation and newsletter confirmation emails.

The Catalogue V1

2024.05–2024.06

Personal project; planning, UI design, frontend development

`Next.js, TypeScript, Tailwind CSS, Notion API`

Built a bilingual portfolio from Notion metadata and GitHub READMEs, fetched through server components. Added index/detail pages, browser-framed thumbnails and video previews.

Simple Drawing and Music Visualizer

2023.11–2024.03

Learning projects; development

`JavaScript, p5.js, p5.sound`

Built drawing, erasing, transforms and PNG export with persistent tool settings. Adapted instructor templates and added modules for nine FFT-based visualizations using ES6 classes/modules and p5.js instance mode.

PRIOR EXPERIENCE

Business system migration

2014

Part-time office work; requirements, development, data migration

`Microsoft Access, SQL`

Investigated DOS ERP data and built CRUD, search, statistics and printing with daily user feedback. Completed development and migration in a month; the system stayed in use for five years until its official replacement.

TECHNICAL EXPERIENCE

Front-end: React, Next.js, TypeScript, JavaScript, Tailwind CSS

Mobile: React Native, Expo, WebView, Kotlin/Swift integration

Data & APIs: TanStack Query/Table, Zustand, Valibot, OpenAPI, Express, FastAPI, SQLite, MariaDB

Visualization: React Flow, react-force-graph-2d, p5.js, p5.sound

Maps & documents: Google Maps, Naver Maps, Supercluster, react-pdf, Lexical use and limited modifications

Development & operations: Vite, FSD, Docker, Electron, Java/JSP and jQuery maintenance, Microsoft Access, SQL