

Juho Sun

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Work Experiences

Front-end Developer / Bemyfriends

December 2024 - now

Integrated Account System

- Participated in a two-person project to develop a unified account system enabling seamless login and authentication across multiple Bemyfriends services, focusing on integrating OAuth-based authentication flows
- Collaborated closely with backend engineers to design and implement secure API integration for account linking and SSO (Single Sign-On)
- Improved user experience by streamlining the sign-up and login process
- Reduced the design system bundle size by over 30% through: 1) Replacing non-tree-shakable dependency modules, 2) Removing libraries that could be replaced with native Web APIs, 3) Handling shared libraries as externals to avoid redundant bundling
- Introduced validation library Zod to the sign-up page for robust form validation and type safety, and conducted a seminar-style presentation to the team to share implementation details and best practices
- Collaborated with the mobile development team to troubleshoot and resolve cross-platform integration issues between web and native layers

Web Advertising SDK

- Led the development of a web-based advertising SDK to enable partner websites to easily integrate ad placements
- Designed a modular and lightweight architecture optimized for quick integration
- Implemented event tracking and analytics features to measure ad performance in real time
- Set up the project foundation using React, Vite, Yarn, and TypeScript for optimal developer experience and build performance

Payment Enhancement Project

- Integrated a new payment gateway (Toss Quick Pay by Bank), expanding available payment methods for users
- Implemented a feature to dynamically configure and reorder available payment methods based on business priorities and promotional needs
- Added support for customizable promotional messages displayed next to each payment method

Custom Shop Home Project

- Developed a customizable “shop home” feature for partner stores, allowing them to tailor layouts and content to their branding
- Built a flexible component system enabling dynamic rendering based on JSON configurations from the backend
- Updated the admin repository dependencies (Next.js, React, MUI, React Query, Zustand) and migrated the transpiler from Babel to SWC for faster build times

Tech Stack React / Next / Typescript / React-Query / React Hook Form / Zustand / Vite / Gitlabs

Front-end Developer / Bucketplace

March 2023 - December 2024

Japan Commerce

- Contributed to launching a new global commerce service targeting the Japanese market
 - Developed new web-view-based order and payment pages, ensuring seamless integration with native client applications
 - Designed the web-view layer architecture and collaborated closely with client developers to debug and optimize its integration between native mobile clients and the web application
 - Managed the in-house payment SDK, integrating new payment gateways (KG Inicis and Komoju)
 - Designed and implemented a payment latency measurement system for performance monitoring
 - Identified and fixed a bug in the Datadog log collection logic, reducing the volume of collected logs by over 97%, significantly cutting storage and processing overhead
 - Upgraded core dependencies including Next.js, React, Typescript and Axios to improve security, stability, and performance
 - Migrated the project's package manager from Yarn to PNPM, optimizing dependency installation times and disk usage
 - Updated CI/CD pipeline to align with the new package manager and improve build consistency
- Tech Stack React / Next / Typescript / React-Query / React Hook Form / Zod / Emotion / Jest / React Testing Library / Github Actions

Instant Discount

- Implemented the “instant discount” feature within the commerce platform, covering both partner center and end-user experiences
 - Developed related admin pages, ensuring intuitive management of discount campaigns
 - Migrated the admin repository bundler from Webpack to Vite, reducing local build times by over 50% and improving the overall developer experience
- Tech Stack React / Typescript / React-Query / React Hook Form / Zod / Emotion / Vite / Github Actions

Commerce Partner Center

- Co-led the migration of the partner center from Ruby on Rails to Next.js, modernizing architecture and improving maintainability
 - Designed and developed over half of the new catalog management and order pages
 - Enhanced system stability through component testing, leading to a successful large-scale relaunch
- Tech Stack React / Next / Typescript / React-Query / React Hook Form / Zod / Emotion / Rollup / Jest / React Testing Library / Playwright / Turborepo / Github Actions

Admin Design System

- Co-led the creation of an internal design system for back-office products (e.g., admin and partner center products)
 - Implemented a JSON-driven UI rendering approach, enabling backend teams to build pages without frontend intervention
 - Released as an internal library, driving consistency across multiple back-office tools and reducing redundant development work
- Tech Stack React / Typescript / React Hook Form / Emotion / Rollup / Jest / React Testing Library / Storybook / Turborepo / Github Actions

Front-end Developer / Yanolja

January 2021 – March 2023

Global Partner Center

- Joined as the second frontend developer in a greenfield project to build a global partner platform for hotel inventory, pricing, and reservation management
 - Took sole responsibility for major improvements and maintenance after the lead developer's departure, ensuring project delivery without delays
 - Played a key role in launching the service across Southeast Asia, especially in Indonesia, adapting features to local market requirements
 - Planned and coordinated the CI/CD setup for multi-language support, enabling scalable global rollout
 - Developed core back-office tools for the platform from scratch, collaborating cross-functionally with product and design teams
- Tech Stack Vue / Nuxt / Typescript / Vuex / Webpack / Jenkins

Co-founder, Full-stack Developer / Meanit

July 2017 – June 2018

- Co-founded Meanit, a media start-up focused on building a crowdsourcing-based political encyclopedia, offering a new approach to news consumption for the Millennial audience
 - Led the full-stack development of the beta platform, securing a ₩40,000,000 investment from Mediati (now merged into sopoong) through successful prototype delivery and pitch demonstrations
 - Designed and implemented core platform features for term submission, content moderation, and collaborative editing, ensuring scalability from early user feedback
 - Optimized the platform for search engines (SEO) to capture traffic from users searching for political terms
 - Successfully launched the service, collecting over 1,900 political terms within five months and managing operations until project closure (mutually decided to pursue graduate studies)
- Tech Stack Vue / Vuex / Firebase / Webpack

Projects

Full-stack Developer / Google News Lab Fellowship

December 2016 – February 2017

- Selected as one of the fellows for *Google News Lab Fellowship*, a media innovation initiative by Google Korea
- Served as the sole developer in a four-member team stageKK, collaborating with KBS to produce interactive and educational web content for young voters ahead of the 19th presidential election
- Developed web-based mini-games and static pages to visualize and compare election promises in an accessible format
- Applied responsive design to ensure smooth engagement across desktop and mobile devices

Educations

M.Sc. in Knowledge Service Engineering / KAIST

March 2019 – February 2021

Advisor Uichin Lee (Interactive Computing Lab)

Research Interest Human-Computer Interaction, Mobile Healthcare, Sensor Data Analysis

Publications

- G Jung et al., "Good Enough!" Flexible Goal Achievement with Margin-based Outcome Evaluation (CHI `21)
- J Sun et al., BeActive: Encouraging physical activities with just-in-time health intervention and micro financial incentives (Asian CHI `20)

B.Sc. in Computer Science / KAIST

February 2012 - February 2018

Extracurricular activities

- Culture Editor at KAIST TIME
- Aviation Safety Team at Engineers Without Borders-KAIST

Select Course Projects

- Indoor-outdoor transition detection using LSTM model on smartphone sensor data - [paper](#) / [slide](#)
- PaperGalaxy: Generating Semantic Network of Academic Papers with Crowdsourcing - [paper](#) / [demo](#)
- An exploratory study on how doodles convey an emotion - [paper](#) / [slide](#)

Hansung Science High School

March 2010 - February 2012