Taek Lim

Warrensburg, MO, USA - English, Korean

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EDUCATION

University of Central Missouri — Warrensburg, MO
M.S. Computer Science: Operating Systems, Networks, Algorithms, Data Structures, AI — *May 2026*

Georgia Institute of Technology — Atlanta, GA
M.S. Computer Science, specialized in Machine learning — *Dec 2026*

University of California, Los Angeles — Los Angeles, CA
B.S. Mathematics-Economics — *Mar 2013*

WORK EXPERIENCE

Software Engineer - Frontend, Adriel — Seoul, South Korea, Nov 2021–May 2024

- Led the migration of the dashboard service from Vue to **React** with **Next.js**, optimizing performance, reducing frontend loading time by 50%, and contributing to tech stack evaluation for improved scalability and maintainability.
- Revamped state management by migrating from **VueX** to **React** with **Jotai** while integrating **React Query**, improving state predictability, performance, and API fetching efficiency.
- Developed a PDF export feature with landscape/portrait support for customizable dashboard reports using **React**, including layout-converting algorithms and comprehensive unit tests.
- Engineered a highly efficient editable dashboard snapshot system using **RxJS**, reducing storage requirements by 90%.
- Built an interactive text editor widget utilizing the WYSIWYG **Quill** library for enhanced user content creation.
- Led the development of a cross-platform **React Native** application, improving user experience through efficient screen flows, deep linking, and streamlined webpack configurations.
- Enhanced documentation of frontend setup, business logic, and terminology using Notion and **Figma**, reducing technical assistance time by 50% and supporting both developers and non-developers.

Fullstack developer, DIV — Jeju, South Korea, May 2021–Oct 2021

- Led frontend and backend development for a new flight ticket reservation system using **JavaScript**, **PHP**, **Twig**, **Slim2**, and **jQuery**, reduced brokerage fee by 20%
- Implemented a hotel reservation system by integrating Expedia's hotel reservation API on a cross-platform application (web /iOS /Android) using **Javascript** and **Framework7**, increased revenue by 5%

Frontend Engineer, BABELTOP — Seoul, South Korea, July 2019 – Nov 2019

- Led a translator approval process and renewed login/join using **Javascript**, **React**, **Redux**, **Redux-saga**

Software Engineer, RECOBELL — Seoul, South Korea, Feb 2018–July 2019

- Engineered and optimized a cloud-based recommendation system using Java, Spring, SQL, Message Queue and AWS, processing 500 million user logs monthly from web and mobile services.
- Maintained a JavaScript-based logger SDK, AWS Kinesis data collector, SQL-driven recommendation engine, and API server.
- Developed APIs for a keyword-based book recommendation service using Java, Spring Boot, MySQL, MyBatis, AWS, Shell scripting, and jQuery, extracting insights from book metadata and user logs with Eunjeon morphism analysis to enhance search relevance and recommendation accuracy.

PROJECTS

OAuth2 Authorization Server | *Spring Boot, Spring Security, HTML, CSS* — Feb 2025 – Present

- Designed and implemented a custom OAuth2 Authorization Server and Resource Server for secure authentication and authorization.

MapReduce Application | *C++, gRPC, Protobuf, CMake* — Oct 2024

- Developed a distributed MapReduce system using async gRPC and Protobuf for efficient data processing.
- Designed a fault-tolerant architecture to handle large-scale computations across multiple nodes.
- Optimized job scheduling and data partitioning strategies to enhance system performance.

TECHNICAL SKILLS

Frontend	JavaScript, TypeScript, React, React Native, Redux, ReactQuery, Jotai, Vue, RxJS, HTML, CSS/tailwindcss
Backend	Java, Spring Boot/Security, C, C++, gRPC, ProtoBuf, Python, Shell, JUnit, REST API, GraphQL
Databases & Data	MySQL, PostgreSQL, Redis, Elasticsearch
DevOps & Tools	Git, Docker, Jenkins, GitHub Actions, Webpack, Babel, ESLint, NPM, Yarn, Gradle/Maven, Linux
Cloud Services	AWS, Azure, Oracle Cloud, Netlify, Cloudflare
AI	MCP, Experience with Claude, OpenAI, Grok, Gemini, Cursor