

# Taek Lim

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## EDUCATION

### University of Central Missouri

*M.S. Computer Science: Operating Systems, Networks, Algorithms, Artificial Intelligence*

Warrensburg, MO

May 2026

### Georgia Institute of Technology

*M.S. Computer Science*

Atlanta, GA (Online)

Dec 2026

### University of California, Los Angeles

*B.S. Mathematics-Economics*

Los Angeles, CA

Mar 2013

## PROFESSIONAL EXPERIENCE

### Frontend Software Engineer, ADRIEL

Seoul, South Korea, Nov 2021–May 2024

- Led the migration of the dashboard service from **Vue** to **React** with **Next.js**, achieving a 50% improvement in frontend loading time and enhancing scalability and maintainability through performance tuning and technology stack evaluation.
- Developed a PDF export feature with landscape/portrait support for customizable dashboard reports using **React**, including layout-converting algorithms and unit tests.
- Improved an 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.

### Software Engineer, RECOBELL

Seoul, South Korea, Feb 2018–July 2019

- Engineered and optimized a cloud-based real-time data streaming recommendation system using **Java**, **Spring**, **SQL** and **AWS**, processing 600 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 script**, and **jQuery**, extracting insights from book metadata and user logs with Eunjeon morphism analysis to enhance search relevance and recommendation accuracy.

## PROJECTS

### MapReduce Infrastructure Implementation: C++, gRPC, protobuf

Fall 2024

- Designed and implemented a simplified distributed MapReduce infrastructure in **C++**, **gRPC** and **Protobuf** based on "*MapReduce: Simplified Data Processing on Large Clusters*" by Jeffrey Dean and Sanjay Ghemawat.

### Barrier Synchronization Using OpenMP and MPI: C++

Fall 2024

- Developed software-based barrier synchronization algorithms, including Dissemination and Bidirectional Tournament algorithms for inter-node synchronization using MPI, based on "*Algorithms for Scalable Synchronization on Shared-Memory Multiprocessors*."
- Investigated hybrid barrier synchronization strategies by combining OpenMP and MPI barriers.

## TECHNICAL SKILLS

Computer Languages	Javascript, Typescript, Java, C, C++, protobuf, Python, Shell script, HTML5, CSS3, SQL
Framework & Lib	React, React Native, Redux, React Query, Jotai, Vue, RxJS, Spring, Spring Boot & Security, JUnit, REST API, GraphQL, gRPC, Sass/SCSS
Databases	MySQL, PostgreSQL, Redis, Elasticsearch, AWS Redshift
Tools	Linux, Git, Docker, Jenkins, Gradle, Maven, Webpack, Babel, ESLint, NPM, Yarn Github Actions, AWS, Azure, Oracle cloud

## CERTIFICATIONS & LICENSES

SQL Developer Certificate, Korea Data Agency	July 7, 2023
AlgoExpert, Certificate of Completion 100 questions, AlgoExpert	Oct 2, 2022
Seoul National University Big Data Academy AI Seminar: AI, Machine Learning, Deep Learning	2019, 2018
CS Engineer Information Processing License, HRDK	Nov 16, 2018