



HoJeong Kim

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Seoul, Korea

OBJECTIVE

Motivated software engineer seeking a challenging role in Systems Development to leverage my expertise in full-stack web development - along with hands-on experience designing and implementing backend solutions. Experienced building applications for Kubernetes-based environments with Docker, and collaborating on CI/CD-driven workflows to ensure efficient and reliable delivery.




EXPERIENCE

- **Kakao bootcamp**  January 2025 - July 2025
BootCamp Pangyo, Korea
 - Currently developing expertise in full-stack web development using Spring boot, React, and MySQL, with a focus on scalable and maintainable applications
 - Learning and implementing CI/CD pipelines with GitHub Actions and Docker to streamline deployment processes
 - Exploring microservices architecture using Kubernetes, aiming to enhance system scalability and modularity
 - Planning to apply web development skills to a community service project, improving accessibility and efficiency of digital resources
 - Researching performance optimization techniques for APIs, including database indexing and query optimization, to improve response times

EDUCATION

- **Sogang University** March 2022 - Present
Computer Science and Engineering Seoul, Korea
Currently in penultimate year (completed 5th semester)
 - GPA: -/4.3
- **Hankuk Academy of Foreign Studies** March 2019 - January 2022
Secondary Education Yongin, Korea

PROJECTS

- **Project A: AI-powered automated calendar** April 2025 - July 2025
Tools: Spring Boot, JPA, PostgreSQL, Redis, Kafka 
 - Developed a real-time collaborative calendar backend using **Spring Boot**, enabling schedule synchronization through **WebSocket** and **SSE**, with **Kafka** for asynchronous message streaming.
 - Applied advanced **Redis caching strategies** (**Cache Aside**, **Write-Through** with TTL + jitter, distributed locks) achieving **96% cache hit rate** and reducing **95th percentile query latency by 32.3%**.
 - Enhanced database performance in **PostgreSQL** by resolving N+1 query issues, applying indexing optimizations, and converting sequential scans to **index scans**, leading to significant execution time reduction for high-frequency queries.
- **Project B: Q&A system for students** January 2025 - March 2025
Tools: Spring Boot, JPA, MySQL, HTML, CSS, Vanilla JS 
 - Developed an anonymous Q&A system for students using Spring Boot and JPA, ensuring efficient data management and persistence.
 - Optimized system performance by applying concurrency control techniques to handle high volumes of simultaneous requests.
 - Established comprehensive test code practices to verify functionality and maintain high software quality.
- **Project C: AI Eminem Chatbot** November 2024
Tools: Python, Streamlit 
 - Developed an AI-powered rap generation system using Chain-of-Thought prompt engineering to craft contextually rich verses on any topic.
 - Implemented a Huggingface-based text-to-speech module that synthesizes Eminem-style rap in real time, offering five distinct style options for a personalized audio experience.
 - Created an interactive Streamlit dashboard for users to input topics and visualize generated rap verses, enhancing engagement and usability.
 - Engineered a modular integration layer to seamlessly connect the natural language processing and TTS components, ensuring scalability for future enhancements.

SKILLS

- **Programming Languages:** Java, C++, Python, C, Javascript
- **Web Technologies:** Spring Boot, JPA(hibernate), Redis, Kafka, Django, React
- **Database Systems:** MySQL, PostgreSQL, MongoDB, h2 database
- **Data Science & Machine Learning:** LangChain, PyTorch, Tensorflow, Matplotlib
- **Other Tools & Technologies:** Selenium, BeautifulSoup

ADDITIONAL INFORMATION

Languages: Korean (Native), English (Fluent, OPIc AL – ACTFL Speaking Assessment)

Interests: Physical AI and basically exploring new technologies.