# Hojeong Kim +82 010-2231-5184 | hojeongkim23@gmail.com In Hojeong Kim | O mellonmusk Seoul, Korea

### **OBJECTIVE**

Responsible and curious student driven by a passion for continuous improvement and solving complex problems at scale. Experienced in designing and optimizing high-performance backend systems with Java, Spring Boot, and distributed technologies like Kafka and Redis. Thrives on ambitious challenges and seeks to collaborate in a fast-paced, candid environment where I can both contribute my skills and learn rapidly from others.

#### **EXPERIENCE**

• Kakao bootcamp [

Backend Development Course

January 2025 - July 2025

Pangyo, Korea

- Applied performance optimization strategies, including such as database indexing, query tuning, and cache optimization, achieving measurable improvements in API response times and system throughput.
- Led backend development within a cross-functional team of AI, Frontend, and Cloud engineers. Collaborated in an
  agile workflow, rapidly iterating on a web application and ensuring tight alignment between backend services and
  user-facing features.

#### **EDUCATION**

Sogang University

March 2022 - Present

Seoul, Korea

∘ GPA: -/4.5

• Related coursework:

(Completed) Data Structures, Algorithms, Computer Architecture, Digital Circuits, Deep Learning, Information Security

(Currently taking) Operating Systems, Compiler Construction, Computer Vision

• Hankuk Academy of Foreign Studies Secondary Education, Natural Science Track March 2019 - January 2022

Yongin, Korea

**PROJECTS** 

• Project A: AI-powered automated calendar

Computer Science and Engineering, currently enrolled in 6th semester

April 2025 - July 2025

Tools: Spring Boot, JPA, PostgreSQL, Redis, Kafka

[0]

- Developed a real-time collaborative calendar backend using Spring Boot, enabling schedule synchronization through WebSocket and SSE, with Kafka for asynchronous message streaming.
- Reduced 95th percentile query latency by 32.3% and achieved 96% cache hit rate through Redis caching strategies (Cache Aside, TTL + jitter, Redisson distributed locks).
- **Improved database performance** by resolving N+1 queries and optimizing indexing, significantly accelerating high-frequency schedule queries.
- Built **real-time collaboration features** using WebSocket and SSE, supporting instant schedule synchronization and event notifications across distributed users.
- Designed scalable event streaming pipelines with Kafka + KStream to support chatbot functionality and multi-instance consistency.

## • Project B: Q&A system for students

January 2025 - March 2025

Tools: Spring Boot, JPA, MySQL, HTML, CSS, Vanilla JS

[0]

- Developed an anonymous Q&A system for students using Spring Boot and JPA, ensuring efficient data management and persistence.
- · Established test code practices to verify functionality and maintain high software quality.

### **SKILLS**

- **Programming Languages:** Java, C++, Python, C, Javascript
- Web Technologies: Spring Boot, JPA(hibernate), Redis, Kafka, Django, React
- Testing Tool: JUnit, Mockito
- Infra: Docker
- Database Systems: MySQL, PostgreSQL, MongoDB, h2 database
- Data Science & Machine Learning: LangChain, PyTorch, Matplotlib
- Web Crawling & Automation: Selenium, BeautifulSoup

#### ADDITIONAL INFORMATION

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

**Interests:** Enhancing system scalability and modularity. Physical AI and basically exploring new technologies.