

Seung-ryeol (Daniel) Choi

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Software engineer focused on performance and system problems in production. Experienced in handling peak traffic, building tools for external partners, and working with users to turn operational workflows into software.

PROFESSIONAL EXPERIENCE

Hyundai Futurenet

Nov 2023 – Present

Application Engineer, e-commerce Team

Seoul, South Korea

- Built and operated a queueing system using Spring WebFlux and Redis that supported 100K users waiting concurrently during a live event without downtime.
- Reduced Next.js server response time by 70% under peak load during a high-traffic event that had previously caused server outages, by introducing a shared Redis cache and eliminating unnecessary network hops.
- Improved response time by 27% on a product detail page with about 400K daily views by removing unnecessary joins, adding database pagination, and introducing lazy loading. This reduced daily I/O connection errors associated with user abandonment from 340 to fewer than 70.
- Replaced an Excel-based API documentation process with a Docusaurus developer portal, making updates easier to maintain and integration guidance easier to share with external partners.

PROJECTS

Roun AI, LLM-Based English Exam Question Generator

May 2026

- Worked with academy teachers to turn their repetitive question-writing workflow into a multi-agent LLM system that generates and validates exam questions.
- Converted teachers' exam-design heuristics into reusable rules for writing distractors, grounding answers in the passage, and adjusting difficulty by grade level.
- Built a human-in-the-loop review flow with separate validators for answer choices, supporting evidence, and difficulty, while teachers retained final approval.

INTERNSHIPS

Alspera

Jun 2021 – Dec 2021

Security Engineer Intern, Infrastructure Team

Seoul, South Korea

- Automated security checks across about 100 Ubuntu servers with Python and Rundeck, reducing inspection time by about 90%.

Backpackr Inc.

Jun 2020 – Aug 2020

Customer Service Intern, Service Operations Cell

Seoul, South Korea

- Traced recurring image-upload complaints in the seller admin to unclear file-size error messaging, and partnered with developers to fix it, reducing related inquiries by 30% in the following month.

EDUCATION

The Hong Kong University of Science and Technology

Aug 2017 – Mar 2023

- B.S. in Mathematics, Computer Science Track

Korea Software Industry Association

Mar 2023 – Oct 2023

- Full-time Software engineering training program · Excellence Award

CERTIFICATION & AWARDS

- Runner-up, Hyundai Futurenet Internal Technology Competition, 2025
- Outstanding Employee Award, Hyundai Futurenet, 2024
- AWS Certified Solutions Architect – Associate, 2024

TECHNICAL SKILLS

Languages: Java, Python, JavaScript

Technologies: Spring, FastAPI, Next.js, Redis, Oracle, PostgreSQL, AWS, Docker

Spoken Languages: Korean (native), English (fluent)