

Dohyun Kim, Customer Engineer

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Skills

Technologies: Python, PyTorch, LangGraph, Docker, Nginx, On-Premises Deployment, Load Testing, Observability

Soft Skills: Technical Presentation, Stakeholder Communication, Problem Solving, AI Governance, Public Speech

Employment History

Research Officer, Agency for Defense Development (ADD) – Daejeon, Korea Jun 2023 – Present

- Architected and developed the "Regulation QA Chatbot" feature in an enterprise AI prototype, utilizing Gemma 3 and LangGraph, directly supporting the **successful acquisition of a 1 billion KRW (\$700K)** project following a **C-level demonstration**.
- Led the chatbot feature development to **resolve 2.53 hours of daily inefficiency** identified via 785 user surveys and 5 internal customer interviews, resulting in an **87% reduction in time** to understand regulatory processes (10.3 min → 1.3 min) during 6-user Proof-of-Concept (PoC) testing.
- Configured and deployed security solutions to **address 50+ compliance requirements** from Defense Counter-intelligence Command. Successfully integrated SSO (TouchEn), Firewall (BLUEMAX), and Observability (Phoenix) with partner engineers, achieving **regulatory approval in 3 months**.
- Designed a **microservice architecture** using Docker Compose to meet **scalability requirements** on a military-level secure, air-gapped infrastructure, integrating Proxy (Nginx), REST APIs (FastAPI), Vector DB (FAISS), and LLM inference (vLLM).
- Led architecture discussions on scaling, performance and sizing by **running load tests** (50-1000 users) to **identify GPU bottlenecks**. Presented quantitative data (P90 TTFT 7.49s, P90 latency 11.6s @ 100 users) to **influence decision makers** and secure approval for long-term GPU resource expansion.
- **Delivered a technical seminar** on AI Agent architecture to 10+ developers, analyzing **Gemini CLI's internal reasoning** and tool-calling mechanisms with OpenTelemetry, and established development best practices by sharing insights on context engineering and self-correction.

Leadership Experience

President, Security Research Club Jan 2020 – Jun 2021

- **Increased retention to 48 members**, reducing the fresh members' dropout rate from 80% (32/40) to 46.1% (41/89) by organizing and co-executing a new **educational mentorship program** for a 10-hour curriculum.
- Delivered **hands-on technical presentation** on "Web Hacking & Burp Suite", guiding 30 beginners to **100% mastery of HTTP request modification** assignment by linking core web theory (session, proxy) to practice.
- **Advised 7 organizations** (e.g., Government, KOSPO, and Clarivate) on **enhancing web security** by identifying vulnerabilities (XSS, File Upload, Open Redirect) and delivering technical reports to solve their security issues.

Project Manager, Daegu SW Hackathon Jun 2022 - Oct 2022

- **Secured 20 million KRW (\$14K)** in funding by collaborating with a local government agency (Daegu Digital Innovation Promotion Agency), and attracted **2 million KRW (\$1,400)** in corporate sponsorship through cold emails.
- Organized and executed a **hackathon with 221 participants**. Abruptly re-built the event into a 3-day virtual format to address COVID-19 risks, rapidly troubleshooting scheduling conflicts and the budget execution plan.
- Gathered and analyzed 11 feedback responses to refine operational issues and future event guidelines.

Education

Kyungpook National University, BS in Computer Science and Engineering Mar 2019 – Feb 2023

- **GPA:** 3.99/4.3
- **Courses:** Data Structure, Operating Systems, Database Management Systems, Massively Parallel Computing