Dohyun Kim

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Skills

Technologies: Python, PyTorch, RAG, LangGraph, LLM Evaluation, Prompt Engineering, Docker, Git, Network

Core Skills: Stakeholder Communication, AI Governance, Public Speech, Leadership, Education

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

Employment History

Research Officer, Agency for Defense Development (ADD) – Daejeon, Korea — Jun 2023 – May 2026

- Architected an end-to-end internal QA chatbot platform from scratch; designed a Hybrid RAG (BM25+FAISS) model after evaluating trade-offs, improving context recall from 77.5% to 95.5% and reducing average response latency from 62 to 8 seconds; deployed the full-stack system on-premise using Docker.
- Secured 1 Billion KRW ($700K) in funding by pioneering company-first LLM security guidelines and presenting a successful demo to C-level executives.
- Led and defined the end-to-end compliance strategy for a vague security audit (Defense Counterintelligence Command), collaborating with infra/security teams to implement solutions (SSO, Firewall) and meet 100+ requirements for approval.
- Built a RAG evaluation system using Ragas; optimized prompts and preprocessing to reduce invalid data by 75% and achieve 97% data accuracy; delivered an technical seminar to present these data optimization stratigies, sharing practical insights on improving evaluation pipelines.

Intern, Haedal Programming – Daegu, Korea — Jul 2022 – Aug 2022

- Developed an educational program on no-code/low-code services for non-technical professionals.

Leadership Experience

Student Council President — Jan 2022 – Dec 2022

- Represented 1,000+ students and collaborated with 50+ council members to design and implement welfare programs and student activities.
- Communicated with 6+ external stakeholders through phone, email, and in-person meetings, representing the council in diverse contexts and negotiations.
- Supervised 10 departments within the council, assigning, and managing tasks to ensure efficient collaborations.

Project Manager, Daegu SW Hackathon — Jun 2022 - Oct 2022

- Organized and led an 8-member task force, overseeing all project management for the hackathon's planning and operation, including task assignment and schedule management.
- Secured 20 Million KRW ($14K) in government funding by collaborating with local institutions (Daegu Digital Innovation Promotion Agency), and attracted an additional 2 million KRW ($1,400) in corporate sponsorship.

Honors

Talent Award of Korea — Dec 2022

- Deputy Prime Minister and Minister of Education, Republic of Korea
- Selected as one of 100 awardees nationwide for outstanding achievements in technology and social contributions.

Research Officer for National Defense program – selected candidate Dec 2020

- Ministry of National Defense & Ministry of Science and ICT, Republic of Korea
- Selected as one of 20 students nationwide for an elite military service program where outstanding science and technology talent serve in R&D roles.

Publications

- Dohyun Kim, Jayden Dongwoo Lee, Hyochoong Bang and Jungho Bae, "*Reinforcement Learning-based Fault-Tolerant Control for Quadrotor with Online Transformer Adaptation*", IEEE International Conference on Robotics and Automation (ICRA) Workshop on Robots in the Wild, Atlanta, USA, 2025.
- Dohyun Kim, Hoseong Jung and Jungho Bae, "*Multi-Agent Network Randomization Method for Robust Knowledge Transfer in Deep Multi-Agent Reinforcement Learning*", 24th International Conference on Control, Automation and Systems (ICCAS), Jeju, Korea, 2024.
- Hojoo Lee, Dohyun Kim, Wonik Park and Joonsung Choi, "*Autonomous Collaboration Control for Manned-Unmanned Complex Systems and Its Compositions*", Journal of the Korea Institute of Military Science and Technology, vol.27, no.6 (2024): 772-783. **(Best Paper Award)**
- Dohyun Kim and Jungho Bae, "*Stochastic Initial States Randomization Method for Robust Knowledge Transfer in Multi-Agent Reinforcement Learning*", Journal of the Korea Institute of Military Science and Technology, vol.27, no.4 (2024): 474-484.