

Euisuh Jeong

AI / ML Systems Engineer

✉ euisuh@uiseoya.com | ☎ +82 10-8068-6644 | 📍 Seoul, Korea | 🌐 uiseoya.com | 🐙 euisuh | in euisuh | 📷 uiseoya

EXPERIENCE

AI/ML Research Engineer & Computer Vision Technical Lead

Feb 2025 – Nov 2026

Republic of Korea Air Force, AI-Based Technology Team | Staff Sergeant & Squad Leader

Gyeryong, Korea

- Improved real-image model accuracy from 73.8% to 84.2% (+10.4 pp) through an 11-soldier, 1,848-person-hour relabeling sprint.
- Cut manual pavement assessment time 98.2% (86.8% accuracy) via a co-designed YOLOv11/Co-DETR + PCI-scoring pipeline.
- Delivered a 231,347-image runway defect dataset from a KRW ~600M initiative; published it as first author in KOSAP.
- Led squad-level data, model, and backend delivery for a closed, isolated military network at an active ROKAF airbase.

Research Engineer

Aug 2023 – Jan 2025

Qatar Computing Research Institute | Cybersecurity Department

Doha, Qatar

- Evaluated 50+ models across 2,000+ exams by architecting the benchmark, reporting, and visualization stack for [aiXamine](#), a 40+ benchmark LLM safety platform spanning 8 security dimensions; co-authored the resulting [paper](#) as a founding member.
- Engineered CVEFixes and a vulnerable-code dataset; acknowledged in Appendix D of [Poison with Style](#), ICML 2026.

Software Engineer

May 2022 – Jun 2023

KARTY – Qatar's first fintech app (digital payments & budgeting)

Doha, Qatar

- Built an SMS, email, and push notification system and supported a security- and regulatory-compliant payment migration.
- Designed a waitlist and lottery system that grew to ~1,400 signups for the FIFA World Cup Qatar 2022 campaign.

Teaching Assistant - CMU 11-785 Deep Learning

Nov 2021 – May 2022

Carnegie Mellon University | Language Technologies Institute

Pittsburgh, PA

- Planned and delivered [lectures](#), [homework](#), [recitations](#), and quizzes to 350+ students in CMU's PhD-level deep learning course.
- Mentored student research teams, guiding their exploration of new deep-learning research directions and project scoping.

PROJECTS

RepOrbit / RMI

2026 – Present

- Created an event-sourced repository-mining visualization and RMI quality score; targeting the MSR 2027 Data & Tool Showcase.

SurfaceGuardBench

2026 – Present

- Developed an auditable agent-safety protocol using a 110-case battery, 300-run campaign, and 144-run challenge.

Runway Evaluation System

2025 – Present

- Architected the YOLOv11/Co-DETR detection and PCI pipeline with FastAPI, Celery, Redis, Postgres, and Docker ([dataset paper](#)).
- Containerized the full stack, transferred images and dependencies into the closed network, and ran services with Kubernetes.

aiXamine

2023 – 2025

- Shipped benchmark and visualization infrastructure for black-box LLM safety across 40+ benchmarks and 8 dimensions.

EDUCATION

B.S. Computer Science

Carnegie Mellon University | School of Computer Science

Pittsburgh, PA

- Graduated with University Honors; Minor in Mathematical Sciences.

M.S. Data Science and Engineering

Hamad Bin Khalifa University | College of Science and Engineering

Doha, Qatar

- Graduated with University Honors.

SKILLS

ML/AI: PyTorch, Transformers, CUDA, computer vision, object detection, LLM evaluation, data labeling QA, model evaluation

Languages & Frameworks: Python, C/C++, TypeScript, React, FastAPI

Infrastructure & DevOps: Celery, Redis, RabbitMQ, Postgres, Docker, Kubernetes, AWS, Azure, Linux, Git

Spoken Languages: Korean & English (Native/Bilingual) | Japanese (JLPT N4; actively studying)

PUBLICATIONS

Y. Park, J. Park, **E. Jeong**. *Music Tagging Graph Neural Network with Tag Labels*. KSMI 2026. [OpenReview:Tqo9T7oMiu](#)

E. Jeong, S. Ji, M. Kim, H. Lee. *ROKAF Runway Crack Dataset*. KOSAP, Dec 2025. [DOI:10.23379/jkosap.1.2.114](#)

S. Ji, **E. Jeong**, M. Kim, H. Lee. *Deep Learning for PCI Assessment*. KOSAP, Aug 2025. [DOI:10.23379/jkosap.1.1.52](#)

F. Deniz, D. Popovic, Y. Boshmaf, **E. Jeong**, et al. *aiXamine: Simplified LLM Safety and Security*. arXiv, Apr 2025. [arXiv:2504.14985](#)

E. Jeong. *SurfaceGuardBench: A Provenance-Bound Protocol for Measuring Coding-Agent Guard Actions and Task Outcomes*. Manuscript, 2026.

E. Jeong. *RepOrbit/RMI*. Manuscript in preparation; targeting MSR 2027 Data & Tool Showcase.