

Hyunwoo Lee

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EDUCATION

University College London (UCL)

MEng Computer Science

- On track for First-Class Honours
- Key Modules: Machine Learning for Visual Computing, Machine Learning and Neural Computing, Logic, Object-Oriented Programming, Computer Architecture and Concurrency, Compilers

Sep 2021 - Jun 2027

London, United Kingdom

Mander Portman Woodward Birmingham

A-level

- Mathematics A*, Further Mathematics A, Physics A (152 UCAS Points)

Sep 2019 - Jun 2020

Birmingham, United Kingdom

WORK EXPERIENCE

Korea University

Student Research Intern

- Fine-tuned LLMs on 100M+ tokens for AI orchestration and implemented speculative decoding at inference, achieving a 40% lift in task success, higher tokens per second throughput, and a 15% reduction in perplexity.
- Implemented a proactive LLM-based EOS prediction system with calibration and confidence thresholds, integrated into the benchmarking pipeline to enable early termination and accelerate experiment cycles.

Jun 2025 - Sep 2025

Seoul, Republic of Korea

National Autistic Society (NAS)

Software Engineer Intern

- Developed a Winter Sports game from scratch using Unity and C#, implementing snowball throwing and snowflake shaping mechanics with motion tracking, gesture recognition, and optimised physics.
- Deployed the game at two partner schools and increased user satisfaction to over 90% by reducing input latency, improving control smoothness and adding new gameplay features based on feedback.

Oct 2024 - Mar 2025

London, United Kingdom

LJ snc

Technology Research Intern

- Synthesized 50+ market and consumer reports into adoption trends, built a weighted scoring model across feasibility, impact, and risk, and prioritized 3 product bets while aligning engineering, design, and GTM around a roadmap with clear OKRs.
- Owned testing for 10+ Java modules, lifting reliability by 20% through expanded JUnit and Mockito coverage together with CI/CD regression suites and static analysis using SpotBugs and Checkstyle, resolving 15+ defects while implementing observability.

Dec 2024 - Jan 2025

Seoul, Republic of Korea

Republic of Korea Air Force

Sergeant

- Secured and managed a closed LTE network for 3,000 users at the 17th Fighter Wing, reducing blast radius and maintaining operational continuity in constrained environments.
- Optimised brigade radio networks and internet servers through secure configuration and controlled access, increasing efficiency by 25% and enhancing service availability.

Aug 2022 - May 2024

Cheong-ju, Republic of Korea

INDIVIDUAL PROJECTS

Surrf

JavaScript

- Built a Chrome extension that generates videos from structured site data using page injected scripts that read the DOM and web APIs that normalize content into a JSON schema then send jobs to AWS Lambda with FFmpeg and S3.
- Added a watch queue badge updates and background status polling and validated user needs through interviews and usability tests which reduced repetitive work time and improved visualization consistency.

Dec 2024 - Feb 2025

Student Grading Website

Java

- Developed a full-stack grade management system with React frontend and Spring Boot backend using JPA on a relational database and serving the React build from the backend.
- Designed a layered architecture with controllers, services, repositories and DTOs and implemented Bean Validation, authentication and role-based access control and unit and integration tests to ensure reliable and secure operation.

Nov 2024 - Dec 2024

LEADERSHIP

University College London Korean Society (UCLKS)

Vice President (25/26), IT Director (24/25)

- Managed the UCLKS website (uclks.org) for 900 members using Docker for deployment and PHP for feature development, and led society events from planning to execution.

Aug 2024 - Present

Kaleon Capital Investment Society

Data Analytics Lead

- Leading development of a single-API automated trading system with scheduled runs, improving backtest reliability by 15%.

Jul 2025 - Present

SKILLS

Programming: Java, Python, JavaScript, C, C++, C#, Haskell

Technologies: Git, React, MySQL, Unity, Docker, HuggingFace, NumPy, Pandas, TensorFlow, PyTorch

Languages: Fluent in English and Korean