

Yojun Moon (문요준)

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Education

POSTECH (Pohang University of Science and Technology)

Mar 2023 – Present

B.S. in Computer Science and Engineering

Work Experience

Samsung Fire & Marine Insurance

Jul 2026 – Aug 2026

AI Engineer Intern, AI Development Part

Built two computer vision modules for insurance claim data, each delivered as an end-to-end pipeline with a web service.

Korean National Police University – FPEI (Future Public Safety Engineering Institute)

Nov 2023 – Present

Research System Developer

Core developer of the institute's research platform: 8 services on a shared FastAPI backend, deployed in production at *.knpu.re.kr (github.com/yojun313/knpu).

- Data Collection — *CRAWLER*, an asynchronous, queue-based crawler with proxy IP rotation, gathering about 1,500 articles and 60,000+ comments per hour from Naver News, and also supporting Naver Blog, Naver Cafe, and YouTube.
- Analysis — *STATISTICS* (statistical analysis and visualization), *NETWORK* (social network extraction and visualization from natural language), and *KEMKIM* (future signal prediction), unified by *MANAGER*, the research resource and big data platform.
- AI Legal Complaint Drafting — built an LLM-based service that drafts complaints meeting legal requirements; received a Letter of Appreciation from the Korean National Police University (Apr 2024).
- Skills: Python, FastAPI, MongoDB, vLLM, PyQt, PM2

POSTECH HAiV Lab

Jan 2026 – Feb 2026

Undergraduate Researcher

Researching ACCIDENTOR, a multi-VLM framework that estimates traffic accident fault ratios from dashcam video.

- Skills: Python, PyTorch, Vision-Language Models

Startup Team (founded by a POSTECH CSE alumnus)

Feb 2025 – Jul 2025

Backend Developer Intern

Developed the backend of a social networking service and supported data-driven product decisions.

- Key Contributions:
 - Developed the SNS backend with NestJS.
 - Built web crawlers and analyzed the collected data.
 - Completed the 2025 I-Corps program, including 3 weeks of entrepreneurship training at UC Berkeley (KIC Tech Frontier Program).
- Skills: NestJS, TypeScript, Python, MongoDB, Crawler

Projects

PCSS (POSTECH Computer Scientist Search)

Jan 2025 – Mar 2026

In-house service for the POSTECH CSE department. Faculty candidate search service, developed on commission.

- Key Implementations:
 - Parsed DBLP XML dumps and stored normalized publication records in MongoDB.
 - Identified Korean-name authors at scale with an LLM API.

- Reduced the search for Korean authors of top-venue papers within a given year and venue range from hours to seconds (several hundred times faster).
- Deployed at pcss.postech.ac.kr
- Skills: Python, MongoDB, LLM APIs

Commeet

Aug 2026 – Present

In-house service for the POSTECH CSE department. Group scheduling service that collects everyone's availability and assigns the meeting times.

- Key Implementations:
 - Automatic time slot assignment — reduced the conflict-free schedule to a degree-constrained bipartite matching and solved it optimally with min-cost max-flow, maximizing the number of people scheduled while packing them into as few sessions as possible.
 - Contact management — a reusable address book for frequent invitees, covering both registered users and people who have not signed up.
 - Professor-only tools — consultation records in the four categories required by POVIS, with per-student notes, a drawn signature, and a printable form; plus student guidance fee settlement with receipt upload. All records are encrypted at rest, as they hold student personal data.
- Deployed at commeet.postech.ac.kr
- Skills: FastAPI, MongoDB (Motor), Jinja2, JavaScript

POPO

Jan 2026 – Present

Campus web service operated by PoApper, POSTECH's student developer club.

- Developing the backend with NestJS.
- Skills: NestJS, TypeScript

Activities

POSTECH Broadcasting Station (PBS)

Mar 2023 – Dec 2025

Member of the Programming & Production Department.

- Filmed, edited, and live-broadcast campus entertainment programs.

Programming Tutor

Jan 2025 – Present

Teaching Python and C to middle and high school students.

- Topics include object-oriented programming, MongoDB, and FastAPI.

Skills

Programming Languages	Python, C, C++, TypeScript, JavaScript
AI / Machine Learning	PyTorch, Ultralytics YOLO, OpenCV, vLLM, LLM APIs
Backend	FastAPI, NestJS, MongoDB
Tools / Miscellaneous	Docker, Git, Linux, PyQt, FFmpeg