



# JIEWAN HONG

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## Summary

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Aspiring **AI engineer and software developer** with hands-on experience in **computer vision**, **large language models (LLMs)**, and **full-stack web development projects**.

Skilled at building end-to-end systems that combine **ML/DL models** with **production-ready web services** and databases.

Brings a background in **cognitive neuroscience research** and **logistics decision-support systems**, with a strong ability to turn data into practical tools and insights.

**Interests:** Applied AI (computer vision, NLP/LLMs), ML-powered products, backend & full-stack engineering.

## Experience

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Alpaco Campus | Seoul, South Korea

**AI Project Developer**

08/2025 ~ 12/2025

- Developed **EduScope**, an AI-based classroom engagement system using YOLO detectors to track phone use, gaze, and hand-raising
- Built **Eat Smart!**, an LLM + Neo4j graph RAG recipe recommender connecting a React Frontend, Node.js/Express backend, Flask model server, and Cypher Search

Korea Software Technology Association |

Seoul, South Korea

**Full Stack Project Developer**

02/2025 - 07/2025

- Implemented features across frontend, backend, and databases for three team-based web applications
- Designed & consumed RESTful APIs; implemented flows such as authentication, content creation, and search
- Modeled relational data & implemented CRUD & business logic to support realistic multi-user scenarios

ROK Army Logistics Command | Daejeon

**Military Researcher, Sergeant**

06/2023 - 12/2024

- Applied AI and data analysis to logistics decision-making, contributing to tools that improved resource allocation & planning.
- Built text analysis workflows to categorize and summarize civilian complaints, helping leadership identify recurring issues & priorities

Johns Hopkins University | Baltimore, Maryland, USA

**Research Assistant**

01/2023 - 06/2023

- Supported analysis of EEG and intracranial recordings for studies of human cognition and neural dynamics.
- Preprocessed datasets and collaborated with graduate students on data handling, documentation, and basic analyses.

Seoul National University | Seoul, South Korea

**Research Assistant**

06/2022 - 07/2022

- Created **code structure diagrams** and documentation for a computational soft-matter research project, clarifying required classes, functions, and data flow.

Baekseok University | Seoul, South Korea

**Research Assistant**

03/2021 - 04/2021

- Transcribed and organized qualitative data from interviews with professors and adoptive parents for an education-focused research project.

## Education

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Johns Hopkins University | Baltimore, Maryland, USA

**Currently pursuing a double major** in Computer Science, Cognitive Science

Dean's List: 2020, 2021, 2022

(Took a leave of absence 06/2023 – 12/2025 for mandatory military service and intensive programming/AI training.)  
08/2020 ~ 05/2027

Alpaco Campus | Seoul, South Korea

Immersive program in **computer vision**, **language models**, and **AI services**, including group projects using YOLO-based detectors, LLM-driven keyword extraction, Graph RAG, and web deployment.

08/2025 ~ 12/2025

Korea Software Technology Association | Seoul, South Korea

5-month **full-stack web development** bootcamp covering frontend, backend, and database design; completed three team-based real-world style web applications

02/2025 ~ 07/2025

## Skills

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- **Programming:** Python, Java (with academic exposure to C, C++)
- **Web & Software:** Html, CSS, JS, React, Node.js, SQL
- **AI / ML:** YOLO-based object detection, LLM prompt engineering, LLM-based keyword extraction, Graph RAG with Neo4j
- **Tools & Platforms:** PyTorch, GitHub, Jupyter Notebook, Anaconda, experience with GPU-based training environments.

## Hobbies and Interests

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- JHU First Generation Investors, Tutor, Baltimore, Maryland, USA, 02/2022, 06/2023
- JHU Wind Ensemble, Member, Baltimore, Maryland, USA, 08/2021, 06/2022
- JHU Omega Psi, General Board Member, Baltimore, Maryland, USA, 08/2022, 06/2023

## Accomplishments and awards

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- JHU Dean's List, Baltimore, MD, USA, 2020, 2021, 2022
- Chinese Proficiency Level Exam HSK Level 5 Certificate, 01/2021
- Valedictorian at APIS HS, Seoul, ROK, 06/2020
- Korea Business Competition, 1st Place, Seoul, ROK, 11/2019

## Languages

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**English:** Native Proficiency

**Korean:** Native Proficiency

**Chinese (Mandarin):** Limited/Intermediate Proficiency

## Projects

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- EduScope Portfolio (CV): [https://drive.google.com/file/d/1HzUh\\_vOLSXdveSOjR65lhVcNUrBcM4tw/view?usp=sharing](https://drive.google.com/file/d/1HzUh_vOLSXdveSOjR65lhVcNUrBcM4tw/view?usp=sharing)
- Eat Smart! Portfolio (NLP):  
[https://docs.google.com/presentation/d/1u\\_-9a2Bz\\_JRHq\\_c1LveCPB-I\\_Uv3NUIX/edit?usp=sharing&ouid=101224762682372742528&rtpof=true&sd=true](https://docs.google.com/presentation/d/1u_-9a2Bz_JRHq_c1LveCPB-I_Uv3NUIX/edit?usp=sharing&ouid=101224762682372742528&rtpof=true&sd=true)
- Full-stack Web Application Final Project: [https://github.com/Sonjulkling/GameCut\\_final\\_backend.git](https://github.com/Sonjulkling/GameCut_final_backend.git)
- Full-stack Web Application 2nd Project: <https://github.com/leo09222022/SHINE.git>
- Full-stack Web Application 1st Project: <https://github.com/leo09222022/OneShotTwoKill.git>
- Documentary Video, Seoul, ROK, 08/2019  
[https://drive.google.com/drive/folders/1fMWrnhBIO0TF8iQj5r\\_TUL2PfhVO7l2W?usp=sharing](https://drive.google.com/drive/folders/1fMWrnhBIO0TF8iQj5r_TUL2PfhVO7l2W?usp=sharing)