

Kyochul Jang

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Education

Purdue University

Bachelor of Science in Computer Science (CGPA: 3.71 / 4.00)

Graduation: Fall 2023

West Lafayette, Indiana

Seoul National University

Master of Science in Artificial Intelligence

Graduation: Spring 2026

Seoul, Korea

Publication

- i) **Jang, K.**, Lee, D., Kim, K., Heo, D., Lee, T., Kim, W., Suh, B. (2025). DICE-BENCH: Evaluating the Tool-Use Capabilities of Large Language Models in Multi-Round, Multi-Party Dialogues. *ACL 2025* (Under Review).
- ii) Song, H., Shin, M., Kim, Y., **Jang, K.**, Choi, J., Jung, H., Suh, B. (2025). AltAuthor: A Context-Aware Alt Text Authoring Tool with Image Classification and LMM-Powered Accessibility Compliance. *IUI 2025 Posters and Demos*. <https://dl.acm.org/doi/10.1145/3708557.3716366>
- iii) Park, K., Kim, J., Song, H., **Jang, K.**, Suh, B. (2025). OASIS: Enhancing Debate Quality and Mitigating Polarization through AI-Assisted Argumentation. *SIGIR 2025* (Under Review).
- iv) Lee, T., Yoon, C., **Jang, K.**, Lee, D., Song, M., Kim, H., Kang, J. (2025). ETHIC: Evaluating Large Language Models on Long-Context Tasks with High Information Coverage. *NAACL 2025*. <https://arxiv.org/abs/2410.16848>
- v) Jeon, H., Kim, Y., **Jang, K.**, Shin, M., Choi, J., Suh, B. (2025). Proposal of Personalized Multimedia E-book System Using Generative AI. *HCIK 2025*. <https://conference.hcikorea.org/hcik2025/main/main.asp>
- vi) Lee, J., **Jang, K.**, Sparkling, A. E., Kang, K. (2025). Large Language Model-based Construction Site Management for Severe Weather Preparedness. *Automation in Construction*. (Under Review)
- vii) Kim, H., Kim, C., Lee, H., **Jang, K.**, Lee, J., Lee, K., Kim, G., Kang, J. (2024). KU-DMIS at EHRSQL 2024: Generating SQL query via question templatization in EHR. *NAACL 2024*. <https://aclanthology.org/2024.clinicalnlp-1.64>
- viii) Oh, D., Kang, K., Seo, S., Xiao, J., **Jang, K.**, Kim, K., Park, H., Won, J. (2023). Low-Cost Object Detection Models for Traffic Control Devices through Domain Adaption of Geographical Regions. *Remote Sensing*. <https://doi.org/10.3390/rs15102584>

Patents

- LG Management Development Institute. **Jang, K.**, Choi, J., Jang, K., Choi, S., Hong, Y. (2025). Predictive System, Control Method thereof, and Learning Method of Predictive System. Korean Patent Application No. 10-2024-0109936. Publication No. 10-2024-0176815. <https://doi.org/10.8080/1020240176815>

Work Experience

Naver - Naver Boostcamp / SSAFY - Samsung

07/2024 - 12/2024

AI Tech Teaching Assistant - Generation for NLP

Remote

- Develop and review lecture content, including videos, assignments, and guides, while designing course objectives and evaluation criteria for the AI Tech NLP track.
- Create and manage leaderboard-style competitions, including setting up datasets, evaluation metrics, and tutorials, and ensuring smooth operation of the stages.ai platform, while organizing educational sessions and seminars for students.

Samsung Electronics DX

06/2023 – 08/2023

Software Engineering Intern

Suwon, Korea

- Developed an automated program utilizing a probabilistic methodology to identify mobile AP program performance segments in Galaxy series products.
- Conducted in-depth analysis of current and voltage usage in application processes utilizing Geekbench5.

Department of Computer Science

08/2022 – 12/2023

Undergraduate Teaching Assistant - CS 17700

West Lafayette, Indiana

- Created customized Python assignments for students based on their level of proficiency and course requirements, ensuring effective learning outcomes.
- Instructed course materials and provided guidance to students in lab sessions while also assisting the Graduate Teaching Assistant in supervising and grading student work.

Independent

05/2022 – 08/2022

Web Development Tutor

Seoul, Korea

- Provided personalized web development tutoring to two design students, guiding them through creating and deploying their websites from scratch.
- Designed a 12-week course about web development. — Course Website: officerchul.github.io/webDev101

Purdue University Residences

08/2021 – 05/2022

Student Office Staff

West Lafayette, Indiana

- Served as a front-line representative of University Residences within the First Street Towers residence hall.
- Learned how to treat customers in various situations and how the Residence system works at Purdue University.

Bridging Group Korea

06/2020 – 07/2020

Moderation Intern

Seoul, Korea

- Successfully managed a diverse group of 500 international buyers and sellers, utilizing fluency in Korean, English, and Chinese, while moderating SPP2020, a high-profile event sponsored by the Seoul Business Agency.
- Acquired valuable customer service experience and a comprehensive understanding of the Residence system at Purdue University through various situations.

Awards And Honors**1st Prize (LG Almers / LG AI Hackathon)**

01/2024 – 04/2024

Dean's List

08/2021 – 12/2023

Semester Honors

01/2021 – 12/2023

Conference Presentation

i) Purdue Undergraduate Research Conference | 2023

Jang, K., Oh, D., Kang, K. (2023). Domain Adaptation Using Pre-trained Object Detection Models for Traffic Control Devices in Other Geographical Regions. *Purdue Undergraduate Research Conference*

ii) The Data Mine Corporate Partners Symposium | 2022

Alhasan, Isslam., Ghaisas, Mihika., Iyer, Sankaran., **Jang, K.**, Kris, Leungwattanakij., Zheng, Annie. (2022). Prediction Model to Help UPS Identify Potential Companies that Yields Positive Results for the Company Using K-Means Algorithm. *The Data Mine*

Research Experience**HCC Lab - Seoul National University**

07/2024 – Present

Graduate Researcher

Seoul, Korea

- Conducting research on Function Calling Benchmarks to evaluate and assess the function-calling capabilities and agentic abilities of LLM models.
- Exploring how AI-human interaction can enhance human life through innovative and practical solutions.

DMIS Lab - Korea University

01/2024 – 06/2024

AI Researcher

Seoul, Korea

- Participated in the "Reliable Text-to-SQL on Electronic Health Records" challenge to develop a language model that generates queries from user instructions. My responsibilities included analyzing and identifying trends in unanswerable queries to enhance model accuracy and reliability. ([NAACL](#))
- Collaborated on the ETHIC benchmark project to assess large language models' long-context processing capabilities across books, debates, medicine, and law, introducing the Information Coverage metric to evaluate their performance. ([ArXiv](#))

SIMPLE Lab - Purdue University

10/2022 – 12/2023

Undergraduate Research Assistant / Undergraduate Researcher

West Lafayette, Indiana

- Finetuned the cutting-edge Large Language Model (LLM) by leveraging the ALPACA dataset, built on the foundation of the LLaMA2 model, with the strategic application of LoRA and 4-bit Quantization for enhanced performance and computational efficiency using Huggingface.
- Analyzed over 100 models utilizing YOLOv5 in the intersection of computer vision and civil engineering, focusing on Transfer Learning and Domain Adaptation. This extensive study led to the publication of a co-authored journal paper. ([Remote Sensing](#))
- Developed a program utilizing the YOLOv5 Object Detection model to automatically delete videos featuring more than two individuals from a dataset of 25,000 videos totaling 1.4 TB and to apply automatic blurring on human faces for privacy enhancement using the DeepFace model.

HBF Lab - Seoul National University

05/2022 – 08/2022

Undergraduate Researcher

Seoul, Korea

- Conducted in-depth analysis and delivered presentations on the effectiveness of various Machine Learning models, such as DNN and RNN, in Deep Learning.
- Conducted Speech-Decoding experiments on individuals with epilepsy, analyzing neural data to identify key features for the SVM Machine Learning model in a four billion dollar government-led project called "Alchemist."

The Data Mine - Purdue University & UPS

08/2021 – 05/2022

Undergraduate Data Science Researcher

West Lafayette, Indiana

- Collaborated with UPS on Cross Reference and used Python and PowerBI to analyze the dataset provided by UPS using internal and external resources to give UPS insight into what portfolio companies to invest in.
- Developed a predictive model using a K-means algorithm in the Scikit-Learn framework with the data to access the potential of portfolio companies with which UPS could partner.

Leadership Experience**Purdue Korean Association (PKA)**

08/2021 – 08/2023

Recruiting Team Leader

West Lafayette, Indiana

- Led a team of 10 members, the largest in the association, and collaborated with Korean companies to recruit talented individuals worldwide.
- Secured club operation fees through successful donation requests from prominent companies such as Samsung Electronics, LG, and SK Innovation, resulting in \$ 7,000 raised for the semester.

Republic of Korea Army

08/2018 – 03/2020

Squad Leader

Seoul, Korea

- Served as a squad leader of a radio operation squad in the military at Capital Defense Command.
- Worked as a translator of Chinese, English, and Korean at Army Headquarters.

Projects Experience**Purdue Korean Association Website Development** | *Typescript, React, Figma, Next.js, Nest.js*

08/2023 – Present

- Build a renewal Purdue Korean Association Official Website, independently creating a custom solution without relying on any Content Management System (CMS).
- Contribute to front-end and back-end development tasks using Next.js (React.js) and Nest.js while utilizing Figma for UI/UX design to enhance user experience. | Website: <https://purdueka.org/> (WIP)

Portfolio Website | *React.js, HTML, Netlify, Tailwind, Firebase*

08/2022 – Present

- Created and deployed my portfolio website from scratch using Firebase, React.js, CSS, and HTML without relying on pre-existing templates. | Website: www.kyochuljang.com (WIP)

Neural Data Analyzation Program | *Python Dash*

08/2022

- Developed a user-friendly web application using Scipy for noise processing and Python Dash to assist neuroscientists in analyzing and plotting neural data without the need for coding knowledge. | Website: <https://github.com/OfficerChul/Neural-Data-AutoPlot-Program>

Online Networking Platform | *Java, JUnit Test*

11/2020 – 12/2020

- Developed a social networking application similar to LinkedIn, allowing job seekers to showcase their skills and interests to potential recruiters.
- Conducted comprehensive testing of all program functions developed by team members using JUnit, successfully identifying and resolving defects to ensure optimal program performance. | Website: <https://github.com/OfficerChul/Social-Network-Profile-Application>

Proficiency in Skills

Languages: English (Full Professional Proficiency), Chinese (Full Professional Proficiency), Korean (Native)

Programming Languages: Python, Huggingface, Pytorch, Java, C, C++, R, JavaScript (React.js), LaTeX, CSS, HTML

Certification: HSK (Level 6), Craftsman Information Processing