HOJUN CHOI

SW Engineer & AI Researcher, OPEN TO WORK

40, Geumgwang-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, South Korea

🛘 (+82) 10-7185-1250 | 🜌 eric970412@gmail.com | 👫 https://hchoi256.github.io/ | 🗞 https://www.linkedin.com/in/hojun-choi-2b10b11a0/

Research Interests

Computer Vision 3D Vision Large Language Model Quantization

Tech Stack

Programming Languages

Python | C | R | SQL

Frameworks

PyTorch | TensorFlow

Education

The Kim Jaechul Graduate School of Al at Korea Advanced Institute of Science and Technology

Madison, WI

M.S IN ARTIFICIAL INTELLIGENCE

Mar. 2024 - May. 2025

· GPA: N/A

University of Wisconsin-Madison

Madison, WI

B.S IN COMPUTER SCIENCE AND DATA SCIENCE

Sep. 2020 - Dec. 2022

GPA: 3.9/4.0

Publication

CONFERENCES

C1 S. Park, *H. Choi*, and U Kang. "Knowledge-preserving Pruning for Pre-trained Language Models without Retraining," Neural Information Processing Systems (**NeurIPS**) 2023 Conference Submission, May 2023.

Honors and Awards _____

2022	Top 10% in Predicting Autonomous Sensor Antenna Performance, LG Research Al Hackathon	South Korea
2022	Nominated for Developing User-friendly Online History Search Chrome Extension, Hatathon	Madison, WI
2022	Dean's List for All Semesters Attended in Recognition of Exceptional Academic Excellence	Madison, WI
2017	Dean's List for All Semesters Attended in Recognition of Exceptional Academic Excellence	Albany, NY

Professional Experience

The Korea Advanced Institute of Science and Technology (KAIST)

Seoul, South Korea

AI Research Intern, Advisor: Prof. Insik Shin

Sep. 2023 - Present

- Collected data for UI Captioning and encoded visual contextual information among UI elements based on the mobile app page hierarchy structure.
- Implemented and integrated LLM technology in multi-device applications on Android Studio.
- Research Assistant.

Seoul National University

Seoul, South Korea

AI Researcher, Advisor: Prof. U Kang

Jan. 2023 - July. 2023

- Specialized in AI model compression and reinforcement learning through quantization research.
- Contributed to a survey paper on lightweight Transformer models using diverse quantization techniques.
- Co-authored a paper on model pruning for NeurIPS2023 Submission by evaluating comparable models and aiding with English translations.

Sep. 2021 - Dec. 2022

- Simulated CADS operational life cycle and tested new models in a custom CARLA environment.
- Validated collaborative automated driving algorithms with DETR.

University of Wisconsin-Madison

Madison, WI

Academic Mentor, Employer: Maisee Her

- Actively engaged in serving the UW community and dedicated to developing intercultural leadership and communication skills.
- Diligently mentored my mentees through academic counseling, resource sharing, and a sincere dedication to their success.
- Enhanced proficiency in crucial AI domains including Linear Algebra, Artificial Intelligence, Human-Computer Interaction, and C Programming.

Projects

Implemented end-to-end detection techniques for large objects in the CARLA environment. CARLA Research Team Project Madison, WI Developed a comprehensive workflow for the Sensing-Perception Group CADS System using the CARLA simulator. Sep. 2022 - Dec. 2022 Database Development Understood core techniques of DBMS and constructed a database structure for real-world problems using MySQL. Sep. 2022 - Dec. 2022 Visitory Developed a user-friendly interactive internet history search Chrome extension. Jan. 2022 - May. 2022 Operating Systems Explored MapReduce, memory encryption, file systems, lottery scheduler, shell, and xv6 kernel threads. Jan. 2022 - May. 2022 Data Modeling with Python & R Explored data visualization, version control, A/B testing, classification, clustering, optimization, simulation techniques, and more. Human-Computer Interaction Report Papers Explored IT support interactions at LTG helpdesk, Memorial Library. Various methods used. Details in processbook. Sep. 2021 - Dec. 2021 Cardiovascular Disease Risk Factor Analysis Examined causal relationships among variables using statistical models and visualized results through graphs in R. Sep. 2021 - Dec. 2021 COVID-19 Self-Checker Addison, WI Developed a simple self-diagnostic analysis CPP software for COVID-19 symptoms. A Free Website for Short-Term Memory Testing Implemented a multi-threaded timer in the back end and enabled parsed data transfer among pages through RestAPI. Sep. 2021 - Dec. 2021 Time Clock System Designed C# Windows software for employee attendance tracking, utilizing a MYSQL-based database with SQL. Jan. 2019 - May. 2018 - Aug. 2018 Aug. 2018 - Aug. 2018	Object Detection for Autonomous Driving using DEtection TRansformer	Madison, WI
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Analyzed data assignment patterns by component in the company's platform and developed software for multilingual tasks. Feb. 2018 - May. 2018	Automation System Development	South Korea
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Teaching

PRIVATE TUTOR, REMOTE, OCTOBER 2022 – PRESENT

Fall 2023	English Speaking Tutoring, Advanced-level
Fall 2023	Mathematical Statistics with Applications, graduate-level
Fall 2023	Linear Algebra, undergraduate-level
Summer 2023	Mathematical Statistics with Applications, graduate-level
Spring 2023	Mathematical Statistics with Applications, graduate-level
Spring 2023	English Speaking Tutoring, Intermediate-level
Fall 2022	Linear Algebra, undergraduate-level

ACADEMIC MENTOR, UW-MADISON, MADISON, WI, SEPTEMBER 2021 - DECEMBER 2022

Fall 2022	Introduction to Human Computer Interactions (CS570), undergraduate-level
Fall 2022	Introduction to Artificial Intelligence (CS540), undergraduate-level

Spring 2022	Elementary Matrix and Linear Algebra (CS340), undergraduate-level
Spring 2022	Introduction to Computer Systems (CS354), undergraduate-level
Spring 2022	Programming III (CS400), undergraduate-level
Fall 2021	Elementary Matrix and Linear Algebra (CS340), undergraduate-level
Fall 2021	Introduction to Computer Engineering (CS252), undergraduate-level

Professional Activities

COMMUNITY SERVICE

English Translation, NAVER Knowledge iN

Remote

Online Freelance English Translation Expert

May. 2022 - Present

July. 2022 - Sep. 2022

CERTIFICATIONS

NLP Development Program, Seoul ICT Innovation Square

Remote

Machine Learning A-Z: Hands-on Python And R, Udemy

Remote

Aug. 2022 - Aug. 2022 Remote

Machine Learning Practical Development: 8 Practical Projects, Udemy Trainee

Aug. 2022 - Aug. 2022

LG Aimers, LG Al Research

Trainee Al Engineering Program, Seongnam Industry July. 2022 - Aug. 2022 Remote

July. 2022 - Aug. 2022

Intensive English Language Program (IELP), University at Albany-SUNY

Albany, NY

Trainee

Trainee

ORGANIZATIONS

CAVH Graduate Student Research Group, University of Wisconsin-Madison

Madison, WI

Member

Computer Science Undergraduate Research Group, University of Wisconsin-Madison

Madison, WI

Student Software Development Club, University of Wisconsin-Madison

Madison, WI

Member

References

References are provided upon request.