

Hojun (Eric) Choi

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RESEARCH INTERESTS

Machine Learning • Deep Learning • Graph/Data Mining • Large-scale Deep Learning

SKILLS

PROGRAMMING LANGUAGES

- Python, C, SQL, Java, R, C++, C#, JavaScript

FRAMEWORKS

- PyTorch, TensorFlow, Keras
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EDUCATION

University of Wisconsin, Madison

B.S in Computer Science and Data Science

| Expected Dec 2022

Advisor | [Dr. Michael Radloff](#) and [Dr. Sara Rodock](#)

University at Albany, SUNY

N/A in Computer Science

| Dec 2017

Remark | [Transferred](#)

HONORS AND AWARDS

2022 LG Research Hackathon

| 2022

Ranked top 10% on hackathon with the topic of predicting the antenna performance of autonomous sensors

2022 Hatathon Nomination, Undergraduate Research Lab (UPL)

| 2022

Built a human-friendly interactable internet history search chrome extension

Dean's List, All semesters in attendance

| 2017-current

The highest level of academic achievement

PROFESSIONAL EXPERIENCE

NAVER KNOWLEDGE iN | EXPERT ENGLISH TRANSLATOR

2022-Currnet | MADISON, WISCONSIN

- Making profits by working as an english translator on the NAVER Knowledge iN platform.
- Providing Eng-Kor translations for academic, general, and business writings.

UNIVERSITY OF WISCONSIN – MADISON | UNDERGRAD. AI RESEARCHER

2022-Currnet | MADISON, WISCONSIN

MENTOR: [Prof. Ran](#)

- Simulated the operational life cycle of the CADS in the CARLA environment
- Validated the developed algorithms of collaborative automated driving
- Developed and test new models in the customized environment and the CARLA environment

UNIVERSITY OF WISCONSIN – MADISON | ACADEMIC MENTOR

2021-Current | MADISON, WISCONSIN

EMPLOYER: [Masiee Her](#)

- Assisted my mentee by giving academic advice, sharing resources, and caring about my students' success.
- Honed my skills in major domain areas of AI; Linear Algebra, AI, HCI, C Programming, etc.

MAPAL HITECO, INC. | PRODUCTION TEAM & SW DEVELOPER INTERN
2018-2020 | SIHEUNG-SI, SOUTH KOERA

- Designed and implemented automated data mapping tools for ERP platform with multi-language contents.
- Provided maintenance services on the company's website and ERP platform.
- Developed time clock systems to check employees' attendance.

PROJECTS

<u>Database Development</u>	2022
Understanding of core techniques of DBMS & Building a database structure on real-world problems using MySQL.	
<u>CARLA Research Team Project</u>	2022
Built a complete workflow of Sensing-Perception Group CADS System using CARLA simulator.	
<u>AI Software and Applications</u>	2022
A full list of my AI projects (may need to be updated).	
<u>Visitory – Hatathon</u>	2022
Built a human-friendly interactable internet history search chrome extension.	
<u>Introduction to Operating Systems</u>	2022
MapReduce, memory encryption, file system, lottery scheduler, shell, and xv6 kernel threads.	
<u>Data Modelings with Python & R</u>	2022
Data visualization, version control, A/B testing, classification, clustering, optimization, simulation techniques, etc.	
<u>Human-Computer Interaction Report Papers</u>	2021
Investigated the problem domain of three different settings.	
<u>Cardiovascular Disease Risk Factor Analysis</u>	2021
Analyzed causal relationships among actors using statistical models & visualized the results through graphs in R.	
<u>COVID-19 Self-Checker</u>	2021
A simple self-diagnostic analysis software for COVID-19 symptoms.	
<u>A Free Website for Short-Term Memory Testing</u>	2020
Implemented multi-threaded timer in back-end and parsed data transfer among pages through RestAPI.	
Time Clock System	2019
A window software for employee' attendance tracker.	
<u>Unity Games Developments</u>	2018
Designed game architectures and optimized graphics performance by batching game objects with hierarchy.	
Automation System Development	2018
Analyzed patterns of data assignment by component in the company's platform and developed software for multilingual tasks.	

TEACHING EXPERIENCE

- **Academic Mentor**

Course	Introduction to Human Computer Interactions (CS 570)
Instructor	Prof. Jacob Thebault-Spieker
Location	University of Wisconsin, Madison
Semester	Fall 2022
- **Academic Mentor**

Course	Introduction to Artificial Intelligence (CS 540)
Instructor	Prof. Jerry Zhu
Location	University of Wisconsin, Madison
Semester	Fall 2022

- **Academic Mentor**

Course	Elementary Matrix and Linear Algebra (MATH 340)
Instructor	Prof. Alexander Hanhart
Location	University of Wisconsin, Madison
Semester	Fall 2021, Spring 2022
- **Academic Mentor**

Course	Introduction to Computer Systems (CS 354)
Instructor	Prof. Michael Doescher
Location	University of Wisconsin, Madison
Semester	Spring 2022
- **Academic Mentor**

Course	Programming III (CS 400)
Instructor	Prof. Gary Dahl
Location	University of Wisconsin, Madison
Semester	Spring 2022
- **Academic Mentor**

Course	Introduction to Computer Engineering (CS 252)
Instructor	Prof. James Skrentny
Location	University of Wisconsin, Madison
Semester	Fall 2021

MENTORED STUDENTS

- Sharmin Akter Chowdhury | 2021-current

Institution	University of Wisconsin, Madison
Degree Level	Undergraduate
Major	Computer Science
- Jeremiah Dominick Lipscomb | 2022

Institution	University of Wisconsin, Madison
Degree Level	Undergraduate
Major	Computer Science
- Isaac Odeyin | 2021

Institution	University of Wisconsin, Madison
Degree Level	Undergraduate
Major	Computer Science

PROFESSIONAL ACTIVITIES

- **CONFERENCE REVIEWS** | 2021-current
 - CVPR, arXiv, ACL, ICCV
- **ONLINE FREELANCE ENGLISH TRANSLATION EXPERT, NAVER KNOWLEDGE IN** | 2016-current
 - Equipped with professional Korean-to-English translation expertise
- **LG TECHNICAL CERTIFICATE PROGRAM IN MACHINE LEARNING, LG RESEARCH** | 2022
 - Absorbed the state-of-the-art AI technology of autonomous driving and radar sensors
- **NLP CERTIFICATION PROGRAM, SEOUL ICT INNOVATION SQUARE** | 2022
 - Equipped with core knowledge and expertise in the in-demand field of NLP
- **AI ENGINEERING PROFESSIONAL CERTIFICATE, ABLEARN AND SEONGNAM INDUSTRY** | 2022
 - Online Certified AI ENGINEERING Certification Training
- **CERTIFICATE OF COMPLETION: MACHINE LEARNING A-Z: HANDS-ON PYTHON AND R** | 2022
 - Learned to create ML algorithms in Python and R from two Data Science experts
- **CERTIFICATE OF COMPLETION: INTENSIVE ENGLISH LANGUAGE PROGRAM** | 2016
 - Completed the IELP with the highest level at the University at Albany - SUNY

ORGANIZATION

CAVH GROUP, UW-MADISON

- Graduate Student Research Group in the Depart. of Civil and Environmental Engineering | 2022

ARTIFICIAL INTELLIGENCE CLUB, UW-MADISON

- A project-based organization committed to bringing together students with an interest in AI | 2022

UNIVERSITY WISCONSIN UNDERGRADUATE PROJECT LAB

- UW Madison Computer Science Undergraduate Research Membership | 2022

STUDENT SOFTWARE DEVELOPMENT CLUB

- UW Madison Student Software Development Membership | 2021