

Hojun (Eric) Choi

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RESEARCH INTERESTS

Machine/Deep Learning • Model Compression • Graph/Data Mining • Hyper-scale AI

SKILLS

PROGRAMMING LANGUAGES

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

FRAMEWORKS

- PyTorch, TensorFlow, Keras
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EDUCATION

Seoul National University

M.S./Ph.D. in Artificial Intelligence | 2023-current
Advisor | [Prof. U. Kang](#)

University of Wisconsin, Madison

B.S. in Computer Science and Data Science | Dec 2022
Advisor | [Dr. Michael Radloff](#) and [Dr. Sara Rodock](#)

HONORS AND AWARDS

2022 LG Research Hackathon

Ranked top 10% on hackathon with the topic of predicting the antenna performance of autonomous sensors | 2022

2022 Hatathon Nomination, Undergraduate Research Lab (UPL)

Built a human-friendly interactable internet history search chrome extension | 2022

Dean's List, All semesters in attendance

The highest level of academic achievement | 2017-current

PROFESSIONAL EXPERIENCE

UNIVERSITY OF WISCONSIN – MADISON | UNDERGRAD. AI RESEARCHER

2022-Current | 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.

- 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

- **Private Tutoring**

Course	Linear Algebra
Instructor	Hojun (Eric) Choi
Location	Remote (Kimstudy)
Period	2022-current
- **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 Odeyoin | 2021
 - Institution | University of Wisconsin, Madison
 - Degree Level | Undergraduate
 - Major | Computer Science

PROFESSIONAL ACTIVITIES

CONFERENCE REVIEWS

CVPR, arXiv, NeurIPS, ICPR | 2021-current

ONLINE FREELANCE ENGLISH TRANSLATION EXPERT, NAVER KNOWLEDGE IN

- Equipped with professional Korean-to-English translation expertise | 2016-current

LG TECHNICAL CERTIFICATE PROGRAM IN MACHINE LEARNING, LG RESEARCH

- Absorbed the state-of-the-art AI technology of autonomous driving and radar sensors | 2022

NLP CERTIFICATION PROGRAM, SEOUL ICT INNOVATION SQUARE

- Equipped with core knowledge and expertise in the in-demand field of NLP | 2022

AI ENGINEERING PROFESSIONAL CERTIFICATE, ABLEARN AND SEONGNAM INDUSTRY

- Online Certified AI ENGINEERING Certification Training | 2022

CERTIFICATE OF COMPLETION: MACHINE LEARNING A-Z: HANDS-ON PYTHON AND R

- Learned to create ML algorithms in Python and R from two Data Science experts | 2022

CERTIFICATE OF COMPLETION: INTENSIVE ENGLISH LANGUAGE PROGRAM

- Completed the IELP with the highest level at the University at Albany - SUNY

| 2016

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