

Hojun (Eric) Choi

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RESEARCH INTERESTS

Computer Vision • 3D Vision • Machine Learning • Big Data • Graph/Data Mining

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.	
<u>Time Clock System</u>	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.	
<u>Automation System Development</u>	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

- CVPR, arXiv, ACL, ICCV | 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