Hojun (Eric) Choi

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RESEARCH INTERESTS

SKILLS

PROGRAMMING LANGUAGES

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

FRAMEWORKS

■ PyTorch, TensorFlow, Keras

EDUCATION

Seoul National University

M.S./Ph.D. in Artificial Intelligence Advisor | Prof. U. Kang | 2023-current

University of Wisconsin, Madison

B.S. in Computer Science and Data Science Advisor | Dr. Michael Radloff and Dr. Sara Rodock | Dec 2022

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

| 2017-2022

The highest level of academic achievement

PROFESSIONAL EXPERIENCE

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.
- Horned 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

Database Development	2022
Undertanding of core techniques of DBMS & Building a databse structure on real-world problems using MySQL.	
CARLA Research Team Project	2022
Built a complete workflow of Sensing-Perception Group CADS System using CARLA simulator.	
AI Software and Applications	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.	
Introduction to Operating Systems	2022
MapReduce, memory encryption, file system, lottery scheduler, shell, and xv6 kernel threads.	
Data Modelings with Python & R	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.	
Cardiovascular Disease Risk Factor Analysis	2021
Analyzed causal relationships among actors using statistical models & visualized the results through graphs in R.	
COVID-19 Self-Checker	2021
A simple self-diagnostic analysis software for COVID-19 symptoms.	
A Free Website for Short-Term Memory Testing	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 multili tasks.	ngual

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 | 2021-2022

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 Odeoyin | 2021

Institution | University of Wisconsin, Madison

Degree Level | Undergraduate Major | Computer Science

PROFESSIONAL ACTIVITIES

CONFERENCE REVIEWS

ICLR, NeurIPS, CVPR, arXiv, ICPR, AAAI, etc. | 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

■ 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