

# Hojun (Eric) Choi

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## RESEARCH INTERESTS

Deep NLP • Machine Learning • Object Detection/Segmentation • Hyper-scale AI

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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

Advisor | [N/A](#)

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## 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

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## PROJECTS

### [Database Development](#)

| 2022

Understanding of core techniques of DBMS & Building a database 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).

### [Visitory – Hatathon](#)

| 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.

### [Human-Computer Interaction Report Papers](#)

| 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 href="#">A Free Website for Short-Term Memory Testing</a>	2020
Implemented multi-threaded timer in back-end and parsed data transfer among pages through RestAPI.	
<b>Time Clock System</b>	2019
A window software for employee' attendance tracker.	
<a href="#">Unity Games Developments</a>	2018
Designed game architectures and optimized graphics performance by batching game objects with hierarchy.	
<b>Automation System Development</b>	2018
Analyzed patterns of data assignment by component in the company's platform and developed software for multilingual tasks.	

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## PROFESSIONAL EXPERIENCE

### **NAVER KNOWLEDGE iN** | EXPERT ENGLISH TRANSLATOR

2022-Currnet | MADISON, WISCONSIN

COMPANY: [NAVER](#)

- 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.
- Horned my skills in major domain areas of AI, such as Linear Algebra, AI, Stats, Data Structure, etc.

### **MAPAL HITECO, INC.** | PRODUCTION TEAM & SW DEVELOPER INTERN

2018-2020 | SIHEUNG-SI, SOUTH KOERA

MENTOR: [Hyoseop Song](#)

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

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## TEACHING EXPERIENCE

### ▪ **Academic Mentor**

Course	Introduction to Human Computer Interactions (CS 570)
Instructor	<a href="#">Prof. Jacob Thebault-Spieker</a>
Location	University of Wisconsin, Madison
Semester	Fall 2022

### ▪ **Academic Mentor**

Course	Introduction to Artificial Intelligence (CS 540)
Instructor	<a href="#">Prof. Jerry Zhu</a>
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

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## SKILLS

### PROGRAMMING LANGUAGES

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

### FRAMEWORKS

- PyTorch, TensorFlow, Keras

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## 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

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## 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

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**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