

# Hojun (Eric) Choi

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## RESEARCH INTERESTS

Deep NLP • Machine Learning • Object Recognition in CV • 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

**[AI Software and Applications](#)** | 2022

A full list of my AI projects.

**[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 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.

**[Unity Games Developments](#)** | 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.

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## PROFESSIONAL EXPERIENCE

### MAPAL HITECO, INC. | SOFTWARE 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

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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	<a href="#">Prof. Alexander Hanhart</a>
Location	University of Wisconsin, Madison
Semester	Fall 2021, Spring 2022

### ■ Academic Mentor

Course	Introduction to Computer Systems (CS 354)
Instructor	<a href="#">Prof. Michael Doescher</a>
Location	University of Wisconsin, Madison
Semester	Spring 2022

### ■ Academic Mentor

Course	Programming III (CS 400)
Instructor	<a href="#">Prof. Gary Dahl</a>
Location	University of Wisconsin, Madison
Semester	Spring 2022

### ■ Academic Mentor

Course	Introduction to Computer Engineering (CS 252)
Instructor	<a href="#">Prof. James Skrentny</a>
Location	University of Wisconsin, Madison
Semester	Fall 2021

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## SKILLS

### PROGRAMMING LANGUAGES

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

### FRAMEWORKS

## 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 Odeoyin | 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
  - CARLA RESEARCH PROJECT**
    - An open-source autonomous driving simulator | 2022
  - ONLINE FREELANCE ENGLISH TRANSLATION EXPERT, NAVER KNOWLEDGE IN**
    - Equipped with professional Korean-to-English translation expertise | 2016-current
  - CENTER FOR ACADEMIC EXCELLENCE ACADEMIC MENTORING**
    - UW Madison Academic Mentor | 2021-2022
  - 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

- UNIVERSITY WISCONSIN UNDERGRADUATE PROJECT LAB**
  - UW Madison Computer Science Undergraduate Research Membership | 2022
- STUDENT SOFTWARE DEVELOPMENT CLUB**
  - UW Madison Student Software Development Membership | 2021