

# Hojun (Eric) Choi

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## RESEARCH INTERESTS

Natural Language Processing • Machine Learning • Computer Vision • Language Models

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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 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 list of my AI projects through self-improvement, Bootcamp, internships, etc.

### [Visitory – Hatathon](#)

| 2022

Built a human-friendly interactable internet history search chrome extension.

### [Introduction to Artificial Intelligence](#)

| 2022

Principles of knowledge-based search techniques, automatic deduction, knowledge representation using predicate logic, machine learning. Applications in tasks such as problem solving, data mining, game playing, natural language understanding, computer vision, speech recognition, and robotics.

### [Introduction to Operating Systems](#)

| 2022

I/O hardware, interrupt handling, properties of magnetic tapes, discs and drums, associative memories, and virtual address translation techniques. Batch processing, time sharing and real-time systems, scheduling resource allocation, modular software systems, performance measurement and system evaluation.

### [Data Modelings with Python & R](#)

| 2022

Data visualization, version control, A/B testing, classification, clustering, optimization, simulation techniques, etc.

### [Introduction to Human-Computer Interaction](#)

| 2021

Investigated the problem domain of interaction between library employees and IT support

### [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 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.

<b>Time Clock System</b>	2019
A window software for employee' attendance tracker.	
<b>Website Front End Maintenance Services</b>	2019
Making the user-friendly layout of pages with visual effects, updating images, etc.	
<b><u>Unity Games Developments</u></b>	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.	

## 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

## TEACHING EXPERIENCE

### ■ 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

## SKILLS

### PROGRAMMING LANGUAGES

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

### FRAMEWORKS

- PyTorch, TensorFlow, NLTK

## 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

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## PROFESSIONAL ACTIVITIES

### CONFERENCE REVIEWS

- CVPR, KCI | 2021-current

### CENTER FOR ACADEMIC EXCELLENCE ACADEMIC MENTORING

- UW Madison Academic Mentor | 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 COMPUTER VISION, 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-current

### STUDENT SOFTWARE DEVELOPMENT CLUB

- UW Madison Student Software Development Membership | 2021