

# Hojun (Eric) Choi

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## RESEARCH INTERESTS

Deep NLP • Machine Learning • XAI in Computer Vision • 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 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.

Analyzed patterns of data assignment by component in the company's platform and developed software for multilingual tasks.

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## 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

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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 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

### 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 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-current

### STUDENT SOFTWARE DEVELOPMENT CLUB

- UW Madison Student Software Development Membership | 2021