Erika Sy

Rockford, IL. | (815) 995 3987 | ebasy22@gmail.com | linkedin.com/in/erika-sy | nullptrerikas.github.io



EDUCATION

University of Wisconsin, Madison

Sep. 2024 - Expected May 2026

Bachelor of Science, Computer Science

Coursework - Introduction to Artificial Intelligence, Introduction to Computer Engineering

University of Illinois, Chicago

Aug. 2022 - May 2024

Bachelor of Science, Computer Science

Coursework - Software Design, Machine Organization, Data Structures, Programming Practicum, Discrete Math, Calc 3, Stats 1, Physics 1

SKILLS

Languages: C++, C, Python, Java, JavaScript, HTML, CSS, R

Frameworks & Libraries: MediaPipe, Unreal Engine, Pandas, React

Tools: Git, SimRobot, Codesys, Miniconda, Pycharm, SolidWorks, Postman, PowerBi, Figma

EXPERIENCE

Undergraduate Research Assistant

Sep. 2024 - Present

University of Wisconsin, Madison

- Engaged in a RoboCup project focusing on advancing autonomous humanoid robots through cutting-edge motion and decision-making technologies.
- Contributing to robotic motion analysis using SimRobot to significantly enhance robot walking speed and agility in competitive scenarios.

Augmented Reality Development Extern

Sep. 2024 - Present

Snap Inc.

- Set to develop and test 4 AR projects in Snap's Lens Studio, utilizing 2D/3D assets and design principles to create immersive digital stories.
- Collaborate with industry experts to explore AR technology storytelling techniques and present interactive brand stores to diverse audiences.

Business Technology Solutions Intern - AbbVie

May 2024 - Aug. 2024

University of Wisconsin, Madison

- · Identified and implemented automation opportunities within the ServiceNow platform to enhance efficiency and reduce operational costs.
- Led 8 employee workshops, used Spreadsheets to document 12 processes, and utilized Visio to map out 5.
- Assisted in rebranding the AI landing page, contributing to a more user-friendly interface that improves the customer experience.
- Conducted 3 batches of smoke testing using Postman and contributed to the prompt engineering library.

University of Illinois, Chicago

Research Assistant

Feb. 2024 - May 2024

Contributed to a project to develop a digital twin for managing nuclear waste, utilizing technologies such as Codesys and Unreal Engine.

• Discussed performance bottlenecks and optimizing simulation code to enhance TCP/IP communication for the physical crane and its digital twin,

Seasonal Advisory Intern University of Wisconsin. Madison May 2023 - May 2023

- Investigated innovative technological solutions to help the firm achieve a net-zero carbon footprint by 2030.
- Leveraged PowerBi, PowerPoint, and Excel to create visually compelling presentations and reports, enhancing stakeholder engagement.
- Wireframe an app using Figma that incentivizes sustainable travel choices by rewarding employees with redeemable points for prizes.

PERSONAL PROJECTS

AI-Powered Support Assistant | Next.JS, JavaScript, CSS

Aug. 2024 - Aug. 2024

- Developed an Al Support Assistant using Next.js, Material-UI, and OpenAI API to enhance user interaction with real-time support.
- Integrated Error Handling, loading states, real-time messaging, auto-scrolling, and multi-language support for improved usability.
- Set up the Development Environment and Deployment Pipeline with **Node.js** and **Vercel** to ensure robust and scalable application performance.

Digital Hand Pen Whiteboard | Python

Aug. 2023 - Apr. 2024

- Created a hand gesture recognition whiteboard using MediaPipe, OpenCV, and Pycharm, enabling intuitive interactions through gesture tracking.
- Participated in solution-oriented team discussions and mentor-led reviews to refine the application's functionality and user experience.
- Showcased the project's innovation and practical applications capabilities at a comprehensive poster session and the ERSP national conference.

Harry Potter Sorting Hat | Python

Jul. 2022 - Aug. 2022

- Built an interactive game using Python Turtle Graphics to simulate the Sorting Hat's house selection process based on their responses to questions.
- Developed and implemented an algorithm that analyzes and weighs user responses to determine the most suitable house placement.

EXTRACURRICULAR

Newsletter Chair

May 2023 - May 2024

- University of Wisconsin, Madison
 - Published 10 newsletters bi-weekly to inform WiCS Members about upcoming programs, workshops, and initiatives to increase engagement.
 - · Collaborated in bi-weekly meetings, bringing innovative event ideas to cultivate a sense of community.
 - Provided support in orchestrating 13 WiCS events, 3 fundraisers, and 1 woman in tech week, assisting with setup and cleanup.

Organizer

Sep. 2023 - Feb. 2024

SparkHacks

- Orchestrated a student-run hackathon that had 300 participants collaborate, innovate, and compete over 24 hours and a series of 4 prompts.
- Coordinated with judges on the hackathon's objectives, criteria for evaluation, and the support needed to carry out their roles effectively.
- Co-led and managed logistics for a Mario Kart tournament with 25 participants to foster community engagement and provide a fun break.

AWARDS

Ideathon

Code Your Dreams

Apr. 2023

• Won the Best Community Outreach Award for a search-enabled calendar that displays STEM events to help engage underrepresented groups.