

# Erika Sy

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## EDUCATION

University of Wisconsin, Madison – <i>Bachelor of Science, Computer Science</i>	Sep. 2024 - May 2026
Coursework - Introduction to Artificial Intelligence, Introduction to Computer Engineering	
University of Illinois, Chicago – <i>Bachelor of Science, Computer Science</i>	Aug. 2022 - May 2024
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:** Codesys, Miniconda, Pycharm, SolidWorks, Postman, PowerBi, Figma

## EXPERIENCE

<b>Business Technology Solutions Intern – AbbVie</b>	May. 2024 - Aug. 2024
<ul style="list-style-type: none"><li>Identify and implement automation opportunities within the ServiceNow platform to enhance efficiency and reduce operational costs.</li><li>Led 8 employee workshops, utilized Spreadsheets to document 12 processes, and used Visio to map out 5 of those processes.</li><li>Assisted in rebranding the AI landing page, contributing to a more user-friendly interface that improves the customer experience.</li><li>Conducted 3 batches of smoke testing using <b>Postman</b> and contributed to the prompt engineering library.</li></ul>	
<b>Research Assistant – University of Illinois, Chicago</b>	Feb. 2024 - May 2024
<ul style="list-style-type: none"><li>Contributed to a project to develop a digital twin for managing nuclear waste, utilizing technologies such as <b>Codesys</b> and <b>Unreal Engine</b>.</li><li>Enhanced the project's efficiency by optimizing the existing simulation code and improving the real-time TCP/IP communication between the physical crane operations and their digital twin representation.</li><li>Examined performance bottlenecks and executes strategic code optimizations to improve the system's efficiency and safety protocol.</li></ul>	
<b>Early Research Scholar – University of Illinois, Chicago</b>	Aug. 2023 - May 2024
<ul style="list-style-type: none"><li>Engaged in a forward-looking project to design a whiteboard application using <b>MediaPipe</b>, <b>OpenCV</b>, <b>MiniConda</b>, and <b>Pycharm</b>. The application uses hand gesture recognition via camera, allowing users to control and interact with a digital whiteboard intuitively.</li><li>Participated in solution-oriented team discussions and mentor-led reviews to enhance the application's functionality and user experience.</li><li>Presented research findings and demonstrated the application's capabilities in a comprehensive poster session.</li></ul>	
<b>Seasonal Advisory Intern – KPMG</b>	May 2023 - May 2023
<ul style="list-style-type: none"><li>Investigated innovative technological solutions to help the firm achieve a <b>net-zero</b> carbon footprint by 2030.</li><li>Leveraged <b>PowerBi</b>, <b>PowerPoint</b>, and <b>Excel</b> to create visually compelling presentations and reports, enhancing stakeholder engagement.</li><li>Wireframe an app using <b>Figma</b> that incentivizes sustainable travel choices by rewarding employees with redeemable points for prizes.</li></ul>	

## PERSONAL PROJECTS

<b>Space Invaders   Python</b>	Dec. 2022 - Dec. 2022
<ul style="list-style-type: none"><li>Developed a Space Invaders clone that utilizes <b>Python</b> and <b>Turtle graphics</b> to recreate the arcade game with progressive difficulty levels.</li><li>Incorporated a high scoreboard feature to track player achievements, encouraging competition and motivating continuous playability.</li><li>Designed user interface with introductory and "you lose" screens to enhance the gaming experience.</li></ul>	
<b>Harry Potter Sorting Hat   Python</b>	Jul. 2022 - Aug. 2022
<ul style="list-style-type: none"><li>Built an interactive <b>game</b> to simulate the Sorting Hat's house selection process based on their responses to questions.</li><li>Developed and implemented an algorithm that analyzes and weighs user responses to determine the most suitable house placement.</li></ul>	

## EXTRACURRICULAR

<b>Community &amp; Outreach Chair – Latinx Organization for Growth in Computing and Academics</b>	Jul. 2023 - May 2024
<ul style="list-style-type: none"><li>Created and managed all event-related forms, organization's email, event room bookings, and external organization relationships.</li><li>Responsible for rebranding the organization's merchandise to align with trends and member preferences.</li><li>Helped organize 6 events throughout the year, including UIC's <b>first-ever</b> Tech Week.</li></ul>	
<b>Newsletter Chair – Women in Computer Science</b>	May 2023 - May 2024
<ul style="list-style-type: none"><li>Crafted 10 bi-weekly newsletters to inform WiCS Members about upcoming programs, workshops, and initiatives to increase engagement.</li><li>Collaborated in bi-weekly meetings, bringing innovative event ideas to cultivate a sense of community.</li><li>Provided support in orchestrating 13 WiCS events, 3 fundraisers, and 1 woman in tech week, assisting with setup and cleanup.</li></ul>	
<b>Organizer – SparkHacks</b>	Sep. 2023 - Feb. 2024
<ul style="list-style-type: none"><li>Orchestrated a student-run <b>hackathon</b> that had 300 participants collaborate, innovate, and compete over 24 hours and a series of 4 prompts.</li><li>Coordinated with judges on the hackathon's objectives, criteria for evaluation, and the support needed to carry out their roles effectively.</li><li><b>Co-led</b> a Mario Kart tournament with 25 participants to foster community engagement and provide a fun break.</li><li>Analyzed feedback, identified areas of improvement, and implemented strategies to strengthen future events.</li></ul>	

## AWARDS

<b>Ideathon Participant – Code Your Dreams</b>	Apr. 2023
<ul style="list-style-type: none"><li>A Hack for Accessibility event with Google Chicago and Deaf Kids Code aimed at making technology more accessible and inclusive.</li><li>Developed a <b>wireframe</b> for a website that features a dynamic calendar that employs web-based search functionality to automatically curate and display relevant STEM events, fostering greater engagement and opportunities for underrepresented groups.</li><li>Awarded the <b>Best Community Outreach Award</b> for the application.</li></ul>	