Erika Sy

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EDUCATION

University of Wisconsin, Madison

Sep. 2024 - Expected May 2026

Madison, WI.

Bachelor of Science, Computer Science

Coursework - Introduction to Artificial Intelligence, Introduction to Computer Engineering

Aug. 2022 - May 2024

University of Illinois, Chicago

Chicago, IL.

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: Unreal Engine, React, Vercel, MediaPipe, Matplotlib

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

EXPERIENCE

Undergraduate Research Assistant

Sep. 2024 - Present

University of Wisconsin, Madison

Madison, WI.

 Engaged in a RoboCup project focusing on advancing autonomous humanoid robots through machine and reinforcement learning techniques 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

Remote

Remote

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.

AI Software Engineering Fellow

Aug. 2024 - Sep. 2024

Headstart AI

Engineered 5+ AI applications and APIs using React, Next.js, OpenAI, Pinecone, and Stripe API.

• Managed the project lifecycle from design to development, implementing MVC design patterns to ensure robust and scalable solutions. Received coaching from Amazon, Bloomberg, and Capital One on Agile, CI/CD processes, Git version control, and microservice architecture.

Business Technology Solutions Intern

May 2024 - Aug. 2024

Round Lake, IL.

Abbvie

- · 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.

Undergraduate Research Assistant

Feb. 2024 - May 2024

Chicago, IL.

University of Illinois, Chicago

· 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,

May 2023 - May 2023

Seasonal Advisory Intern

Chicago, IL.

- 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 AI 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 gesture recognition whiteboard using MediaPipe, OpenCV, and Pycharm that enabled real-time interactions with a 90% accuracy rate.
- 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.

LEADERSHIP

Newsletter Chair

Women in Computer Science

May 2023 - May 2024 Chicago, IL.

- · 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 SparkHacks Sep. 2023 - Feb. 2024

Chicago, IL

- 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 Chicago, IL

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