

Shereen Sattar

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EDUCATION

Bachelor of Mathematics and Computer Science

University of Illinois Chicago (UIC) • Chicago, IL • December 2025

- Concentration in Algorithms and Theory

PROJECTS

Personal Portfolio Website

shereenstr03.github.io/my-website/ • September 2024 - November 2024

- Designed and developed a responsive, interactive resume website from scratch using HTML, CSS, and Javascript with 100% customization.
- Used Figma for wireframing and pre-design, ensuring a polished, user-friendly interface.
- Implemented dynamic UI features: hover effects with color changes, flip animations revealing additional content, and interactive click functionality.
- Integrated a custom animation using p5.js: an original character drawing moves across the screen, responding to user interaction by halting and displaying a personalized greeting.

Research: Numerical Adventures with Prime Numbers (Python)

Dept. of Math, Statistics, and Computer Science (UIC) • January 2024 - May 2024

- Developed Python programs for numerical analysis and visualization of prime numbers, utilizing advanced libraries and techniques for efficient computation.
- Conducted research on prime numbers, focusing on numerical techniques such as prime distribution, primality testing, and analyzing sequences. Collaborated with a team to investigate and analyze prime number properties, uncovering patterns, special types, and fundamental theorems.

Singly Linked List Implementation (C++)

University of Illinois Chicago • November 2023 - December 2023

- Developed an object-oriented C++ program to implement a singly linked list that stores strings and their lengths, allowing efficient word storage and retrieval.
- Optimized linked list operations for handling datasets of over 40 strings, enhancing search efficiency through custom node traversal algorithms, resulting in improved average access times by 20%.
- Achieved efficient memory management through dynamic allocation for node creation and deletion, handling lists with lengths of up to 40 words while ensuring minimal memory overhead.

INVOLVEMENT

Chief Social Media Manager

University of Illinois Chicago • Astronomy Club at UIC • August 2023 - Present

- Designed and maintained the Astronomy Club's website using Weebly, resulting in a 30% increase in user engagement and improved accessibility for over 200 active users.
- Created and distributed visually appealing posters and promotional materials using Canva and original artwork, leading to a 25% increase in attendance at club social events, with over 300 participants at the most attended event.
- Increased Instagram followers by 122% over a span of a year through consistent content creation and engagement strategies.

General Member

University of Illinois Chicago • WiCS (Women in Computer Science) • August 2023 - Present

- Participated in intensive technical workshops, enhancing coding skills in languages such as Python, C++, and Java.
- Engaged in a panel discussion with graduate students and industry guest speakers, gaining insights into advanced topics in computer science and networking with professionals to strengthen career connections.
- Attended comprehensive technical interview preparation sessions, equipping myself with essential strategies and skills, resulting in increased confidence and a higher success rate in mock interviews.

SKILLS

Technical Skills: Python, C++, Figma, HTML, CSS, Object Oriented Programming, Mathematics, Implementing Complex Algorithms, Data Structures, Javascript, p5.js

Software Skills: Microsoft Excel, Access, Word, Outlook, Powerpoint

Languages: Fluent in English, Fluent in Urdu