

Haris Kabir

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EDUCATION

National University of Computer and Emerging Sciences

2021 - 2025

Bachelor of Science in Computer Science

Nixor College

Sept 2019 - July 2021

A-levels

The City School

2006- 2018

O-levels

Work Experience and Internship

SayabiDevs

AI / Data Science Intern - (Aug 2022 - Sep 2022)

PROJECTS

BookStore - Web application

- **Frontend Technologies:**

Utilized HTML, CSS, JavaScript, and Bootstrap to create a responsive and visually appealing user interface.

- **Backend Technologies:**

Implemented the backend functionality using PHP and MySQL to ensure a seamless and efficient user experience.

- **Database Design:**

Applied normalization techniques to design and structure database tables, enhancing data integrity and system efficiency.

Convex Hull

- Implemented and compared geometric algorithms for line segment intersection and convex hull computation
- Evaluated algorithms with diverse complexities including brute force, Jarvis March, Graham Scan, Quick Elimination, and a research-driven approach

Dining Philosopher Problem

- Developed an operating system project focusing on solving the Dining Philosophers Problem using process synchronization techniques in C language.
- Utilized concepts of concurrency and mutual exclusion to ensure the smooth execution of the program, implemented on the Linux operating system environment within a VMware virtual machine.

Carpool Management System

- Implemented a carpool management system based on object-oriented programming principles.
- Developed the project using C++ language, utilizing features such as classes, inheritance, and polymorphism.
- Utilized file handling in C++ for efficient data storage and retrieval within the project.

Contact Book

- Implemented a phone book program in C++ allowing users to create and manage contact information efficiently.
- Utilized hashing algorithms to generate unique keys for storing and searching contact information, achieving $O(1)$ time complexity for search operations unless collisions occur, in which case chaining is applied for resolution.

ADDITIONAL

- Courses: Deep learning for perception, Neural Networks and Deep learning, Convolutional Neural Network, Sequence Models, Transformers
- Technical Skills: C, C++, Python, PHP, HTML, CSS, Bootstrap, JavaScript(JS), MySql, UML
- Language Skills: English, Urdu
- Volunteer work: Joined NGO "Taleem Sab k Liyey (TSKL)" during A-Levels at Nixor College. Contributed to spreading knowledge and teaching underprivileged students across Pakistan.