

SERENA SINHA

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Training

Data Structures and Algorithms - Self Paced [Online Course] [[LINK](#)]
GeeksForGeeks

May'2024 – Aug'2024

- Successfully completed a 16-week course focused on Data Structures and Algorithms, gaining a deep understanding of foundational and problem-solving techniques.
- Familiar with key concepts including arrays, linked lists, stacks, queues, trees, graphs, sorting algorithms.
- Gained experience in understanding efficient algorithms and understanding time-space complexity.
- Built a Tic Tac Toe terminal game in CPP using the Minimax algorithm to simulate an AI opponent that selects optimal moves.

Projects

Real-Time Document Editor | *Node.js, Express.js, React, Socket.io, Codemirror*

Nov'2024 – Dec'2024

- Integrated **Socket.io** for **real-time synchronization** of document changes across all connected users.
- Implemented **user management** features such as joining sessions using unique Room IDs and usernames.
- Developed an interactive editor using **Codemirror**, supporting **syntax highlighting** and **document formatting**.
- Added functionality for copying Room IDs, leaving editing sessions, and **managing user participation**.
- Focused on **seamless collaboration**, **responsive design**, and a **user-friendly interface** for effective team workflows.
- GitHub Repository Link: <https://github.com/SerenaSinha31/RealTextEditor>

Online Food Delivery Website | *React-Vite, MongoDB, ExpressJS, NodeJS*

Mar'2024 – Apr'2024

- Designed and deployed a **full-stack online** food delivery application with **dynamic menu filtering**.
- Implemented user **authentication** and individual session handling using **MongoDB**.
- Enabled **cart management**, **payment** and **checkout system** with a **responsive design** layout.
- Leveraged the **MERN** stack to ensure performance, **scalability**, and **maintainability**.
- GitHub Repository Link: https://github.com/SerenaSinha31/BackendProject_OnlineFoodDelivery

Certificates

Safe and Responsible Ai

Nov'2024

NPTEL — [Certificate Link](#)

Server-Side JavaScript with NodeJS

Apr'2024

Coursera — [Certificate Link](#)

Introduction To Large Language Models

Feb'2024

Google Cloud — [Certificate Link](#)

Technical Skills

Languages C++, JavaScript, Html, CSS

Technologies/Frameworks: React JS, Node JS, Git, GitHub, MongoDB

Skills: Web Development, Problem-Solving, Responsive Web Design, JavaScript, DSA, UX/UI, Postman

Achievements

- 1st Position in Section – **Spotlight Circle Honoree, Department of Communication Skills–IV**
Recognized for excellence in communication skills, and leadership in class.
- Complete 100+ questions on **LeetCode** and 300+ questions on **GeeksForGeeks**
- Secured **Silver** Badges in **HackerRank** – Achieved **3 stars in CPP** and Java and **4 stars in Problem Solving**.
- CODE STORM 36 Hours Hackathon – **Spirit Organization & MLSA(Microsoft Learn Student Ambassadors)**
Held the role of Coordinator, managing event planning, team coordination, and smooth execution.

Education

Lovely Professional University Punjab

Since September 2022

Computer Science and Engineering — CGPA: 7.61

Jalandhar, Punjab

St. Maria Goretti Inter College

2020 – 2021

12th with Science — Percentage: 82%

Bareilly, Uttar Pradesh