Anjali Singh

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# EDUCATION

## Lovely Professional University,Punjab,India 2023-26

BTech(Computer Science and Engineering)

**Coursework:** Data Structure, Design, and Analysis of Algorithms, Operating System, DBMS, Cloud Computing

**CERTIFICATIONS**

## Python Programming BY Udemy 2022

* Mastering Data Structure and Algorithm By Udemy 2023
* Understanding Cloud Fundamentals 2023
* Cloud Computing with AWS By inLearning 2024
* Design Analysis and Algorithm By Coursera 2024
* Generative AI By Coursera 2024

**PROJECTS**

## Instagram Clone: Scalable Social Media Platform | HTML, CSS, Javascript, MongoDB, Express.js

* Designed a user-centric photo and video sharing platform, scalable for 1 million users.
* Implemented Login, Signup, Create Post, Edit Profile like 10+ more features.
* Established MongoDB for the database with all read queries under 10 milliseconds.
* Express.js for the back-end architecture with response time under 50 milliseconds for all APIs.
* Ensured exceptional performance through rigorous REST API testing with 100% test coverage.

## Sudoku Solver Visualizer | Java

* **Java**: Main language used for overall application logic and structure.
* **Swing/AWT**: Frameworks for creating the graphical user interface (GUI) components and managing layouts.
* **Java Threads**: Used to run the puzzle-solving algorithm asynchronously to avoid blocking the GUI thread.
* **HashSet**: Java collection used to store and check uniqueness of numbers within rows, columns, and subgrids of the Sudoku board.This combination allows the creation of a Sudoku solving application with a graphical user interface that users can interact with to load puzzles, solve them, and clear the board as needed

## E-Commerce React | Redux App

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* Designed an E-commerce react and redux app.
* Users can buy items for themselves.
* Frontend is made using react.js and Sass is used for styling.
* Redux is used for state management for the users data.
* Users can also apply coupon and get the discounted price products.
* Firebase is used to add user authentication and storing the data of cart products.

**Learning System website | HTML,CSS**

* Created responsive layouts and interactive elements to enhance user experience.
* Implemented content management features for educational resources and student progress tracking.
* Ensured accessibility and usability standards were met.
* Conducted testing and debugging for cross-browser compatibility.

**TECHNICAL SKILLS**

## Languages: C/C++, Java, Python.

* Full Stack Development: HTML, CSS, Javascript, React.js
* Database: Mysql, MongoDB
* Developer Tools: VS Code, Git