ISHAN DUTTA

9767433583 | ishan.dutta22@pccoepune.org | Linkedin | 8.15 CGPA

SUMMARY

Innovative and dedicated software developer with a strong foundation in web development and data structures & algorithms (DSA). Passionate about solving real-world problems through technology, demonstrated by impactful projects in web development. Keen interest in the cutting-edge field of quantum cryptography, aiming to leverage this knowledge to pioneer advancements in cybersecurity.

PROFESSIONAL EXPERIENCE

Nov 02- Nov 31

Wooferzz

Software Developer Intern

- Designed and developed a high-quality, user-friendly website for the startup, significantly enhancing the online presence and user engagement.
- Collaborated with a dynamic team to implement innovative features and streamline the user interface.
- Utilized best practices in web development, including responsive design, to ensure optimal performance across all devices.

PROJECTS

Attendance Management System with Facial Recognition and Two-Factor Authentication

Developed an Attendance Management System utilizing facial recognition and networking for secure and efficient student attendance tracking. The system features a two-factor authentication mechanism:

1. WiFi Connection Verification: Ensures the student is connected to the college's WiFi by matching the MAC address.
2. Facial Recognition: Uses Python libraries like OpenCV (cv2) and face_recognition for precise face verification.

Technologies Used: Python, cv2, face_recognition, tkinter, OpenCV, netsh.

The project enhances attendance accuracy, reduces manual work, and ensures data security with a user-friendly interface.

Game Arena with Multiple Interactive Games

Developed a Game Arena featuring three classic games—Snake, Pong, and Aim Trainer—using the Raylib library in C++. This project required advanced problem-solving skills to create seamless gameplay experiences within a 2D grid environment. Key challenges included handling game mechanics such as scoring, game over conditions, actions, and triggers. This project leveraged data structures and algorithms (DSA) expertise, including arrays, queues, 2D matrices, and greedy approaches to ensure efficient and responsive gameplay.

Technologies Used: Raylib (C++), Data Structures & Algorithms (DSA).

Agro Seva Portal - Empowering Farmers with Digital Tools

Developed a comprehensive full-stack website, Agro Seva Portal, designed to support farmers by providing essential information and services. Key features include:

- User Authentication: Farmers can log in with unique accounts for personalized access.
- Crop Pricing Information: Displays current prices of various crops at different locations.
- Real-Time Weather Updates: Provides up-to-date weather information to help farmers make informed decisions.
- Government Schemes Requests: Farmers can request and access available government schemes.
- Community Interaction: Enables farmers to write and react to reviews and advisories, fostering a collaborative community.

Technologies Used: Full Stack Development (Front-end: HTML, CSS, JavaScript; Back-end: Node.js, Express.js; Database: MongoDB).

KEY ACHIEVEMENTS

- Achieved 350th rank in CodeChef Division 3.
- Conducted research on threats to quantum cryptography.
- Earned a 2-star rating on CodeChef.
- Accumulated over 1600 points on LeetCode.

SKILLS

c++ c tkiinter raylib html css javascript SQL
react java python