





SHIV ARORA

 Shiv's Portfolio  passionshiv007@gmail.com  [LinkedIn](#)  [Github](#)

Education

Meerut Institute of Engineering and Technology

B.Tech in Computer Science & Engineering

2021 - 2025

7/10 CGPA

Work Experience

PearlThoughts (Fullstack Developer Intern)

November 2024 – December 2024

Certified 

Remote

- Integrated Clerk to handle secure login/signup flows, improving user onboarding efficiency and enabling centralized user management.
- Designed and implemented a scalable MongoDB user model using Mongoose, improving query speed by 20% and ensuring data integrity.
- Built custom error-handling logic in Node.js/Express, reducing unhandled exceptions and improving API uptime and reliability.
- Improved API response time and security by building custom middleware for auth, input validation, and standardized error handling.

Projects

Real-Time Bicep Curl Tracker — MediaPipe & OpenCV

February 2025

- Built a computer vision application using **MediaPipe** and **OpenCV** to detect human pose landmarks and count bicep curls in real time.
- Designed a custom **angle calculation algorithm** using shoulder, elbow, and wrist coordinates to accurately track curl reps with over **95% accuracy**.
- Integrated a real-time feedback system to notify users about **improper form or incomplete reps**, improving user guidance and workout quality.
- Optimized video frame processing using **NumPy vectorization**, achieving **30+ FPS** on standard webcams for smooth real-time experience.

AirVillas — Fullstack Application 

October 2024

- It is a **scalable web application** for property rental, similar to Airbnb, using Node.js, MongoDB, Express, EJS, and Bootstrap.
- Integrated **user authentication** and home listing modules, improving user engagement by creating a seamless property search experience and increasing the number of registered users by 300 within one month.
- The system leverages **asynchronous programming** to handle multiple requests concurrently.
- It should be capable of handling a **load of up to 100-200 concurrent users** with optimized read heavy interactions.

Technical Skills

Languages: Java, JavaScript, Python

Problem Solving: Data Structures and Algorithms, Object Oriented Programming

Backend: Node.js, Express.js, MongoDB, MySQL, Mongoose

Frontend: React, TailwindCSS, HTML, CSS, JavaScript, Bootstrap

Clouds & Databases: Cloudinary, PostgreSQL, MongoDB Atlas

Web Technologies: Docker, Socket.IO

Developer Tools: Postman, VS Code, Git, GitHub

Algorithmic Competitions/Achievements

- I Solved **450+** DSA problems on **LeetCode**, building problem solving skills.
- Average LeetCode **Contest Rating:** 1371.
- Earned a Certificate in **Cloud Computing** with Microsoft Azure, conducted by Microsoft at **IIT Roorkee**.
- Presented our project **Real-Time Bicep Curl Tracking** at the **12th International Conference**, organized by **BVICAM, Bharati Vidyapeeth, New Delhi**, and earned a certificate of participation.