

# JAY SANDEEP CHATPALLIWAR

Nagpur, Maharashtra, India

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## Education

Walchand College Of Engineering

B.Tech in Computer Science And Engineering

Sep. 2021 – June 2025

Sangli, Maharashtra

## Relevant Coursework

- Data Structures
- Algorithms Analysis
- Operating Systems
- Database Management
- Object-Oriented
- Programming
- Computer Networks

## Experience

FinIQ Consulting Pte. Ltd

Engineering Intern (On-site)

June 2024 – July 2024

Pune, Maharashtra

- Optimized SQL queries to enhance database performance, reducing query time by 90.67%.
- Collaborated with the EFG team to redesign 20+ MPG pages, focusing on user-centric navigation and aesthetic appeal; these changes led to a 20% increase in user retention and a noticeable boost in lead generation.
- Expanded a demo Webpack project for internal use by adding an Angular Component giving timeline of trades, improving client-side rendering performance.

## Projects

StudyNotion | MERN Stack, JWT, Redux

- Built an EdTech platform with secure authentication for students and educators using JSON Web Tokens (JWT).
- Utilized Redux for efficient state management and MongoDB for data storage, improving data access times by 25%.

GradeSarathi | MERN Stack, Apex Charts

- Designed an academic evaluation portal with interactive data visualizations using Apex Charts.
- Applied cloud-based storage solutions using Cloudinary and deployed using Vercel, enhancing deployment efficiency by 30%.

SignVision – Sign Language Detection Model | Python, TensorFlow, OpenCV, LSTM

- Innovated a machine learning model for real-time sign language detection using LSTM, converting hand gestures into English text with 98.5% accuracy.
- Trained the model on video input to recognize and classify sign language gestures, improving communication between signers and non-signers.

Secure Chat Application with WebSockets | Spring Boot, WebSocket, MongoDB, Spring Security

- Shaped and enforced a real-time chat application with WebSocket communication and MongoDB for message storage, reducing message delivery latency by 20%.
- Established a secure authentication system utilizing Spring Security, which automated user logins and encryption, leading to enhanced security measures and a significant reduction in support tickets related to account access.

## Technical Skills

Languages: C, C++, Java, Python, JavaScript

Frameworks: MERN Stack, Spring Boot, Angular, MySQL, MongoDB

Technologies: Git, Linux, JIRA, Oracle SQL

## Achievements

- Specialist on Codeforces with a Highest Rating of 1428
- Ranked 71 in CodeChef Long Challenge with a Highest Rating of 1795
- LeetCode Highest Rating: 1850
- Competed at the State Level Athletics Meet for Nagpur on two occasions.