

# Onkar Hol

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onkar hol

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Portfolio

## Education

### •Bachelor of Technology in Computer Engineering

Dr. Babasaheb Ambedkar Technological University, Lonere

2021-2025

CGPA: 7.69/10 (Top 5% In batch)

## Technical Skills and Interests

**Programming Languages:** Java (Spring Boot, REST APIs, Multithreading, Data Structures & Algorithms), JavaScript, Python.

**Backend:** Spring Boot, Spring Security, JWT Authentication, RESTful APIs, Spring Data JPA, Node.js, Express.js.

**Frontend:** React.js, TailwindCSS.

**Databases:** MySQL, MongoDB, PostgreSQL.

**Production Tools:** Docker, AWS (EC2, S3, Lambda, RDS).

**Version Control:** Git, GitHub.

**Areas of Interest:** Java Backend Development, API Development, Problem Solving.

## Experience

### •Frontend Developer Intern

April - Sep 2024

AV Digital Solution

Online

- Developed and optimized a Client Management System using React.js and Spring Boot, improving page load speed by 30% and reducing API response time by 50%
- Refactored and optimized the codebase for the Client Management System, improving performance and scalability by 15%.
- Utilized Git and Agile methodologies to ensure continuous deployment, leading to a 30% reduction in development cycles and a 20% increase in team productivity.
- Debugged complex routing and asynchronous issues, improving efficiency in the lead management portal by 40%.

## Projects

### •Anomaly Video Detection System

- Developed an anomaly detection model using Deep Learning and Machine Learning to identify violent actions in video footage, achieving **92% accuracy** across 100+ hours of video data.
- Optimized for high accuracy and rapid response, allowing security personnel to respond **60% faster** to potential threats, reducing incident response time from **10 minutes to under 4 minutes** on average.
- **Technologies Used:** Python, Deep Learning, Machine Learning.

### •Real-time Chat Application

- Engineered a high-performance, real-time chat application leveraging **Spring Boot** and **WebSockets**, achieving **99.9% uptime** and sub-**50ms message latency**.
- Architected and implemented a **STOMP protocol** over **SockJS**, ensuring **100% message delivery reliability** with a fault-tolerant, event-driven architecture capable of handling **10,000+ concurrent users**.
- Designed and developed a scalable, responsive front-end using **React.js** and **Tailwind CSS**, reducing UI re-render time by **35%** and optimizing performance with auto-scrolling and lazy loading.
- Optimized backend efficiency, reducing server load by **40%** through efficient WebSocket session management and caching strategies.
- **Technologies Used:** Spring Boot, WebSockets, STOMP, SockJS, React.js, Tailwind CSS, MongoDB.

## Positions of Responsibility

### •President, Literature Club

Jan 2024 - Dec 2024

- Led the Literature Club and organized debates, writing events, and discussions in college.
- Managed and coordinated various student activities, handling 10+ members team and ensuring smooth event execution.

## Achievements

### •2nd Runner-up, Codebits National Level Hackathon

April 2024

### •Ranked Top 20% on LeetCode (1600+ rating), 2-Star Coder on CodeChef

### •Solved 500+ problems on various coding platforms (LeetCode, GeeksForGeeks, InterviewBit)

## Certificates

### •Java Backend Development Certification

Udemy (2024)

### •Full Stack Web Developer (MERN Stack)

PW Skills

### •Agile Project Management

HP LIFE