

Nihal Sathawane

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Full Stack Software Engineer

Aspiring Software Engineer with hands-on experience building full-stack applications using Python, JavaScript/TypeScript, React, Node.js, and PostgreSQL. Skilled in developing clean, scalable systems with a strong understanding of backend services, REST APIs, and data integration. Eager to contribute to fintech-driven projects that have real-world business impact.

Education

Dr. Babasaheb Ambedkar Technological University Raigad, Maharashtra	Dec. 2021- Aug 2025
Bachelor of Technology in Computer Engineering.	
BVG School & Junior College Wadegaon	Jul. 2019- Mar. 2021
HSC, 87.77%	
BVG School & Junior College Wadegaon	Jul. 2008- Mar. 2019
SSC, 91.80%	

Technical Skills

- Languages:** Python, JavaScript, TypeScript, Java, C++, SQL, Bash
- Frameworks/Libraries:** React, Node.js, Express, Flask, FastAPI, Spring Boot
- Databases:** PostgreSQL, MongoDB, Redis
- Tools:** Git, Docker, Postman, cURL, Nginx
- Cloud & DevOps:** AWS (basic), CI/CD (GitHub Actions), REST APIs
- Others:** JWT, WebSockets, Unit Testing (JUnit, Mockito), Agile/Scrum

Projects

Generative AI for Education Github	Jan. 2025
Tech Stack: Streamlit, MBZUAI/LaMini-T5, LangChain, Vector DB	
<ul style="list-style-type: none">Engineered an AI-powered tool to simplify complex educational content using LaMini-T5 models.Used Lang Chain and vector databases to provide personalized, beginner-friendly answers from custom-trained data.Crafted an interactive UI with Streamlit, enhancing accessibility and ease of use.Impacted 50+ students by improving learning clarity and reducing confusion in technical topics by over 60%.	
Real-Time Chat Application GitHub	Dec. 2023 - Mar. 2024
Tech Stack: React.js, Node.js, MongoDB, JWT, Socket.io	
<ul style="list-style-type: none">Built a real-time chat app enabling users to send messages, share files (images, videos, PDFs), and create chat rooms, handling 10K+ concurrent users.Implemented JWT authentication & Passport.js, securing 100% of user sessions, and integrated WebSockets (Socket.io) for real-time updates with sub-100ms latency.Optimized database queries in MongoDB, reducing message retrieval time by 35% and improving server response speed by 25%.	

Experience

Web Developer Internship	Oct. 2022– Dec. 2022 Remote
Business Web Solutions	
<ul style="list-style-type: none">Establish and maintained front-end websites for 5+ projects using HTML5, CSS3, JavaScript (ES6+), jQuery, EJS, React.js, and Bootstrap. Translated design mock-ups into responsive, user-friendly web interfaces, achieving 100% mobile compatibility with HTML5, JavaScript, AJAX, and JSON.Enhanced website functionality and user experience through custom coding, plugin integration, and SEO best practices, resulting in a 25% increase in site performanceDesigned and implemented CMS solutions and security protocols, providing comprehensive training and support to 50+ users. Collaborated with clients to define website and application requirements, leading to clear, actionable development plans and improving project timelines by 20%.	
Software Developer Intern	
MangosOrange Services Pvt. Ltd. – Noida	
Sep 2024 – Mar 2025	
<ul style="list-style-type: none">Developed and deployed a Facial Recognition Attendance Tracker using Django, OpenCV, and Deep Learning (CNN), enhancing attendance accuracy and efficiency across departments.Integrated real-time face detection and recognition models within Django views and templates, improving response times and reliability for live camera feeds.Designed modules for student registration, subject tracking, and CSV-based report automation, streamlining academic workflow by 30%.Collaborated with a cross-functional team using Git-based version control and Agile practices to ensure timely software delivery and maintain high-quality standards.	

Optimized ML model performance for faster inference and integrated best practices for **AI-driven system scalability and maintainability**.

Achievements

- Secured a Global Rank of **300** out of **20,000+** participants in the CodeChef Starters 143 Division 4 contest (Rated).
 - **2nd** Position in Web development Contest Conducted in college .
 - Aptitude Naukri Campus Young Turks **95.39%** & TCS ION NQT-Cognitive **80.75%**
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Leadership / Extracurricular

- Managed technical events including coding competitions and sessions
 - Promoting competitive programming among students.
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Relevant Coursework

- Data Structure and Algorithms
- Operating System
- Database Management System Experience
- Computer Network
- Machine Learning
- Artificial Intelligence
- Object-Oriented Programming
- Software Engineering
- Cloud Computing