

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*

- 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*

- 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

- 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 performance**
- Designed 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

- 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** Positon in Web development Contest Conducted in college .
- Aptitude Naukri Campus Young Turks **95.39% &** TCS ION NQT-Cognitive **80.75%**

Leadership / Extracurricular

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

Relevant Coursework

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