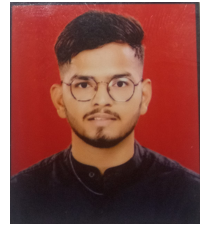# Tanmay Satalkar

tanmaysatalkar@gmail.com | +91 9373034084 | LinkedIn | GitHub

Professional Summary

Computer Science undergraduate with strong foundations in **C/C++ programming, Object-Oriented Design, and Data Structures & Algorithms**. Experienced in developing **scalable software solutions** and solving complex technical problems. Proficient in **full-stack development** with hands-on expertise in building RESTful APIs and modern web applications. Skilled in **Agile methodologies, software architecture design**, and collaborative development. Passionate about creating efficient, maintainable code and contributing to innovative software products.

Education

Vishwakarma Institute of Information Technology, Pune
Bachelor of Technology in Computer Science (Artificial Intelligence)
- CGPA: 8.67 (Expected Graduation: 2027)
- Relevant Coursework: Data Structures, Algorithms, OOP, Database Management, Operating Systems, Software Engineering

Government Polytechnic, Aurangabad
Diploma in Information Technology
- Percentage: 91.67% | Strong foundation in programming fundamentals and software development

Technical Skills

Programming Languages: C, C++, Python, JavaScript (ES6+), TypeScript
Core Competencies: Object-Oriented Programming, Data Structures & Algorithms, Problem Solving, System Design
Web Technologies: React.js, Node.js, Express.js, RESTful APIs, HTML5, CSS3, Tailwind CSS
Databases: MongoDB, MySQL, Firebase Firestore
Developer Tools: Git, GitHub, VS Code, Postman, Docker (Basics), Linux/Unix
AI/ML: Machine Learning Basics, NLP, LLMs (Gemini API), Hugging Face, BERT, Prompt Engineering
Soft Skills: Agile Development, Team Collaboration, Technical Documentation, Software Testing

Projects

AI-Powered EdTech SaaS Platform
- Architected and developed a production-grade SaaS platform using Python and Streamlit for automated exam evaluation.
- Designed scalable REST APIs and implemented modular backend architecture following OOP principles.
- Integrated Gemini API and BERT-based NLP models, achieving 90%+ accuracy in semantic answer grading.
- Built OCR module with PDF/image processing capabilities, reducing manual grading time by 60%.
- Implemented robust error handling, data validation, and user feedback mechanisms.

Custom Data Structures Library (C++)
- Implemented generic data structures (Stack, Queue, Linked List, Binary Tree, Hash Table) using C++ templates.
- Applied OOP principles including encapsulation, inheritance, and polymorphism for reusable code design.
- Optimized algorithms for search, insertion, and deletion operations with focus on time complexity.
- Developed comprehensive unit tests and documentation for library usage.

Full-Stack MERN E-Commerce Application
- Built end-to-end e-commerce platform with user authentication, product management, and payment integration.
- Developed RESTful APIs using Node.js and Express.js with MongoDB for data persistence.
- Implemented responsive frontend using React.js and modern state management techniques.
- Deployed application using cloud services with CI/CD pipeline for continuous integration.

Experience

Software Development Intern, Naskraft Solutions, Aurangabad
- Collaborated with cross-functional teams in Agile environment throughout the complete SDLC.
- Designed and implemented UI prototypes and frontend components, improving user navigation efficiency by 30%.
- Optimized application performance and cross-device compatibility using modern development practices.
- Participated in code reviews, debugging sessions, and technical documentation efforts.
- Contributed to architectural discussions and proposed solutions for technical challenges.

Certifications & Achievements

- MERN Stack Web Development – Comprehensive training in React, Node.js, Express.js, MongoDB
- Power BI for Data Analysis and Visualization
- Active participant in competitive programming on platforms like LeetCode
- Contributed to open-source projects on GitHub with focus on code quality and collaboration