OMKAR JADHAV

Aspiring Software Engineer with a strong foundation in Industrial Mathematics and Computer Applications. Skilled in C, C++, STL, OOP, and MySQL, with knowledge of computational geometry, computer graphics, and SDLC. Passionate about building efficient and scalable software solutions.

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WORK EXPERIENCE

MIT ACSC, Pune

System Operator   Aug 2022 - May 2025

- Managed computer lab systems, handling installation, configuration, and troubleshooting of hardware/software.
- Provided technical support to faculty and students, resolving system and network issues.
- Maintained backups, enforced security protocols, and assisted in upgrading lab infrastructure for improved performance.

EDUCATION

MIT Arts, Commerce And Science College ,Alandi D Pune

M.Sc. in Industrial Mathematics with Computer Applications- 8.86/10   2022 - 2025

Maharashtra Mahavidyalaya, Nilanga

B.Sc. in Science- 9.21/10   2019 - 2022

PROJECTS

Convex Hull Implementation-

- Implemented Jarvis's March algorithm to find the convex hull of 2D points.
- The Implemented using C++ in Visual Studio for accurate and efficient execution.
- This project highlights the use of computational geometry in real-world applications.

Library Management System -

- Developed a full-fledged library management application with a frontend interface for user interaction.
- Implemented core features: add/remove books, issue/return books, and search by ID/title.
- Applied OOP concepts with inheritance for Admin and User role management.
- Utilized STL containers (vector, map) for efficient data storage, retrieval, and management.
- Focused on modular design, usability, and maintainable code structure.

CERTIFICATION

Cybersecurity Analyst Job Simulation – Tata Forage *(Aug 2025)*

- Gained practical exposure to Identity and Access Management (IAM) fundamentals.
- Worked on platform integration for secure authentication and authorization.

SKILLS

- Programming Languages: Java, C, C++ (OOP, STL, Multithreading, Pointers, Memory Management), STL
- Databases: MySQL, MongoDB
- CI/CD Tools: Jenkins, GitHub Actions, Git, Linux
- Geometry Concepts: Computational Geometry ,Computer Graphics