

# Om Somvanshi

Bachelor of Technology  
Vellore Institute Of Technology

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## EDUCATION

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### VELLORE INSTITUTE OF TECHNOLOGY

2022-Present

Bachelor of Technology in Computer Science and Engineering

CGPA: 7.3

### MORNING STAR SCHOOL, GWALIOR

12th, Central Board of Secondary Education

2021-2022 - 77%

10<sup>th</sup>, Central Board of Secondary Education

2019-2020 - 96.2%

## PROJECTS

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### Triage Management System - Curawave

March 24

- Developed and deployed a Triage Management System improving healthcare delivery for rural populations.
- Collaborated with cross-functional teams to design user-friendly interfaces and optimize patient workflow.
- Integrated secure authentication and data encryption protocols to safeguard patient information.
- Implemented real-time reporting features for medical staff, increasing operational efficiency by 30%.
- Utilized technologies such as Python, Django, React, and AWS to build scalable cloud-based solutions.

### Blockchain-Based Digital Certificate Verification System

- Designed and implemented a blockchain-based digital certificate verification system using Ethereum and Solidity, reducing fraud risk by 40%.
- Developed and deployed 10+ smart contracts for certificate issuance and validation, increasing verification speed by 50%.
- Applied cryptographic protocols and decentralized identity management to secure over 100,000 user records with zero data breaches.

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, JavaScript

**Machine Learning & AI:** TensorFlow, PyTorch, Scikit-learn, KNN, CNN, NLP, Reinforcement Learning  
**Web Development:** React.js, Node.js, TypeScript, FastAPI, HTML/CSS

**Databases:** MySQL, MongoDB, Data Modelling

**DevOps & Cloud:** AWS, Git, GitHub, Cloudflare

## Research Projects:

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### Real-Time Collaborative Code Editor (Research Project, VIT Bhopal)

- Developed and deployed microservices for real-time data processing, reducing system latency by 35%
- Led front-end development for a React-based platform, increasing user engagement by 20%.
- Implemented automated testing suites, reducing bug reports by 25%.
- Built and maintained RESTful APIs with 99.9% uptime, serving over 50,000 daily users.

**Technologies:** Python(Flask/Django), React.js, Redux, Data Augmentation, Express.js

## CERTIFICATES:

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- **IBM BLOCKCHAIN FUNDAMENTALS :** Issued by IBM :Blockchain · Cryptography · Cloud Applications
- **IBM BLOCKCHAIN DEVELOPER:** Issued by IBM : DevOps · Data Structures · Critical Thinking
- **MongoDB Certified DBA Associate (C100DBA):** Issued by FACE Prep: Data Modeling · MongoDB · Atlas