Om Somvanshi

Bachelor of Technology
Vellore Institute Of Technology

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EDUCATION

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.%*

10th, Central Board of Secondary Education   *2019-2020 - 96.2%*

PROJECTS

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

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:

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:

– 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