

Zansi Brahmbhatt

Career Objective

To leverage expertise in competitive programming, full-stack web development (including Web3), and AI/ML to build innovative and efficient solutions. Seeking a challenging role where I can contribute to cutting-edge projects and continuously expand my skillset.

Personal Info

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College: Vishwakarma Institute of Information Technology (VIIT)

Achievements

****Achievement 1:****

* ****Project Title:**** Decentralized Collaborative Document Editor using IPFS and React

* ****Description:**** Developed a fully functional, peer-to-peer collaborative document editor leveraging IPFS for decentralized storage and React for a user-friendly frontend. Implemented robust conflict resolution algorithms ensuring data consistency across multiple users. The project showcased advanced proficiency in frontend development (React), distributed systems (IPFS), and Web3 technologies. Achieved a 95% uptime during rigorous testing with 10 concurrent users, demonstrating scalability and reliability. The project's code was optimized for speed, resulting in a 20% faster response time compared to centralized alternatives.

****Achievement 2:****

* ****Project Title:**** AI-Powered Predictive Maintenance System for Wind Turbines using TensorFlow and Flask

* ****Description:**** Created a predictive maintenance system for wind turbines using machine learning algorithms implemented in TensorFlow. The system analyzes sensor data from wind turbines to predict potential failures with 90% accuracy, a 15% improvement over existing models. A Flask-based backend provided a RESTful API for seamless data ingestion and prediction retrieval. The project demonstrated

expertise in AI/ML (TensorFlow), backend development (Flask), and data analysis. The system's deployment to a cloud environment (AWS) showcased skills in cloud computing and DevOps, leading to a 30% reduction in projected maintenance costs based on simulation results.

Skills

* **Proficient in a Core Programming Language (Competitive Programming Focus):** Demonstrated mastery of a language like Python (with libraries like NumPy for numerical computation) or C++ (for speed and efficiency in algorithms and data structures). Includes experience in competitive programming platforms like Codeforces, LeetCode, or HackerRank, with a strong ranking/rating to showcase problem-solving abilities.

* **Frontend Web Development (React/JavaScript Expertise):** Solid understanding of React.js, including component-based architecture, state management (e.g., Redux, Context API), and working with RESTful APIs. Able to build responsive and interactive user interfaces, ideally with a portfolio demonstrating completed projects.

* **Backend Development (Node.js/Express.js or similar):** Experience building robust and scalable backend systems using Node.js and Express.js (or alternatives like Python/Django, Java/Spring Boot). Familiar with database technologies (e.g., MongoDB, PostgreSQL), API design principles (REST, GraphQL), and deployment strategies (e.g., Docker, Kubernetes).

* **Web3 Development (Solidity/Ethereum):** Basic understanding of blockchain technology and experience developing smart contracts using Solidity on the Ethereum blockchain. Familiar with decentralized applications (dApps) and related tools. A deployed smart contract or dApp is a significant plus.

* **Machine Learning Fundamentals (Python/Scikit-learn):** Knowledge of fundamental machine learning concepts (supervised/unsupervised learning, model evaluation metrics). Experience with libraries like Scikit-learn, TensorFlow, or PyTorch for building and deploying simple machine learning models. A portfolio showcasing projects like image classification, sentiment analysis, or recommendation systems would be beneficial.