

Faras Chakrabarti

Achievements

****Achievement 1:****

*** **Project Title:**** Decentralized Collaborative Note-Taking Platform using IPFS and React

*** **Description:**** Developed a secure and efficient collaborative note-taking application leveraging IPFS for decentralized storage and React for a user-friendly interface. Implemented a novel algorithm to ensure data consistency and conflict resolution amongst multiple simultaneous editors, achieving a 30% improvement in latency compared to existing centralized solutions. The project demonstrated proficiency in frontend development (React), distributed systems (IPFS), and competitive programming skills (algorithm optimization). Successfully deployed the application on a testnet, showcasing functionality and scalability.

****Achievement 2:****

*** **Project Title:**** AI-Powered Personalized Learning Platform with Backend in Node.js and Machine Learning Model for Personalized Recommendations

*** **Description:**** Designed and implemented a personalized learning platform using a Node.js backend and a custom-trained machine learning model for recommending learning resources based on individual student performance and learning styles. The system accurately predicted student performance with 85% accuracy, a 15% improvement over existing recommendation systems. This project showcases expertise in backend development (Node.js), AI/ML (model training and deployment), and database management (efficient data storage and retrieval for personalized learning paths). The platform also incorporated a sophisticated user authentication system demonstrating robust security practices.

Skills

*** **Proficient in at least one major programming language (with a focus on problem-solving):**** This could be Python (versatile for AI/ML, backend, and scripting), Java (robust for backend and competitive programming), or C++ (powerful for competitive programming and systems programming). The key isn't just knowing syntax, but demonstrating strong algorithmic thinking and problem-solving skills through projects or competitive coding (e.g., LeetCode, Codeforces).

* **Frontend Web Development Fundamentals:** Mastery of HTML, CSS, and JavaScript (along with at least one framework like React, Angular, or Vue.js) is crucial. Showcase this skill through building interactive and responsive web applications, demonstrating an understanding of user experience (UX) principles.

* **Backend Development with Databases:** Experience with a backend framework (Node.js, Python's Django/Flask, Java's Spring Boot) paired with database skills (SQL and NoSQL databases like MongoDB or PostgreSQL). Build RESTful APIs and demonstrate an understanding of server-side logic, security (authentication/authorization), and deployment.

* **Introduction to AI/ML or Web3:** Choose one area to develop foundational expertise. For AI/ML, focus on libraries like TensorFlow or PyTorch, and build a small project using machine learning algorithms (e.g., image classification, sentiment analysis). For Web3, explore smart contract development (Solidity) and blockchain technologies, potentially creating a simple decentralized application (dApp).

* **Version Control (Git) and Collaboration:** Proficiency in Git is vital for any developer. Demonstrate experience with branching, merging, pull requests, and working effectively in collaborative coding environments (e.g., GitHub, GitLab). This shows professionalism and the ability to work on team projects.

Personal Info

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Career Objective

To leverage strong problem-solving skills and diverse technical proficiencies in frontend, backend, AI/ML, or Web3 development to contribute to innovative and impactful projects. Seeking a challenging role that fosters continuous learning and growth within a collaborative and dynamic team environment.