

Janya Srinivasan

Career Objective

To leverage expertise in competitive programming, full-stack development (React, Node.js, Solidity), and machine learning (TensorFlow/PyTorch) to build innovative and scalable solutions for challenging problems. Seeking a challenging role where I can contribute to cutting-edge projects and continuously expand my technical skills within a collaborative environment.

Personal Info

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College: Army Institute of Technology (AIT)

Achievements

Achievement 1:

Developed a novel, AI-powered recommendation system for a university library's digital archive using a hybrid approach combining collaborative filtering and content-based filtering. The system achieved a 25% improvement in click-through rates compared to the existing system, demonstrating a significant enhancement in user engagement and resource discovery. The project utilized a TensorFlow backend and a React frontend for a responsive and intuitive user experience. The project's source code has been open-sourced and contributed to the university's open-source initiative, demonstrating a commitment to open collaboration and knowledge sharing.

Achievement 2:

Designed and implemented a decentralized, blockchain-based platform for secure and transparent academic record management. This system, built on Ethereum using Solidity and incorporating IPFS for data storage, eliminates the risk of data manipulation and improves the verifiability of academic credentials. The project features a user-friendly interface (built with Vue.js) allowing students to easily access and manage their records and provides a robust API (using Node.js and Express.js) for integration with other university systems. The platform successfully passed a

rigorous security audit demonstrating resistance to common blockchain vulnerabilities. The project won second place in the university's annual Hackathon, showcasing exceptional technical proficiency and innovation within the web3 space.

Skills

* **Proficient in Python and Competitive Programming:** Strong understanding of data structures and algorithms, demonstrated by successful participation in coding competitions (e.g., Codeforces, LeetCode) and a portfolio of well-structured, efficient code solutions.

* **Mastery of React and Frontend Development:** Expert in building responsive and interactive user interfaces using React, including experience with state management libraries (Redux, Context API), testing frameworks (Jest, React Testing Library), and deployment to platforms like Netlify or Vercel. A portfolio showcasing visually appealing and functional web applications is essential.

* **Backend Development with Node.js and Express:** Skillful in designing and implementing RESTful APIs using Node.js and Express, coupled with experience using databases (e.g., PostgreSQL, MongoDB) and knowledge of security best practices (authentication, authorization). A portfolio of backend projects demonstrating API design and database management is required.

* **Solidity and Web3 Development:** Understanding of smart contract development using Solidity, familiarity with Ethereum and other blockchain platforms, and experience with decentralized application (dApp) development. A portfolio showcasing deployed smart contracts or dApps on a testnet or mainnet is highly valuable.

* **Machine Learning with TensorFlow/PyTorch:** Proficiency in building and deploying machine learning models using TensorFlow or PyTorch, including experience with various algorithms (e.g., neural networks, regression, classification), data preprocessing, model evaluation, and deployment to cloud platforms (e.g., AWS, Google Cloud). A portfolio of machine learning projects with clear explanations of methodology and results is crucial.