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N T SUTYA PRAKASH BHANDARI

A dedicated Full-Stack Ethereum Blockchain Developer with hands-on experience in developing decentralized applications (dApps), smart contracts, and blockchain-based financial platforms. Skilled in a variety of modern web and blockchain technologies, with a strong foundation in

Languages : English, Kannada, Telugu, Hindi

Education

COURSE TITLE	UNIVERSITY/INSTITUTION	MARKS OBTAINED	AGGREGATE	YEAR OF PASSING
B.Tech	Dayananda Sagar University ,Bangalore	-	7.89	(Expected 2025)
XII/PUC	SRS PU College,Challakere	533/600	89.63	2021
10th	KVHS , Chalalkere	591/625	94	2019

Skills

Programming Languages / Tools	**Frontend Development: React.js, UI/UX design,** **Blockchain Development: Solidity, Remix, Ethereum Virtual Machine (EVM), DeFi** **Backend Development: Web3.js, Truffle, Hardhat** **Testing Frameworks: Mocha, Chai, Ganache** **Other Technologies: NFT, DApps, DevOps, AIML, Web2, Web3**
Python Libraries	**Numpy , Pandas , Scikit-learn , Tensor-flow , OpenCV , Streamlit , PyTorch , Keras , Flask , Machine learning , Deep learning**
Web Development	**HTML , CSS , JavaScript , Bootstrap , Tailwind CSS,Node.js**
Visualization Tools	**Matplotlib , Seaborn , Tableau , PowerBI**
Database Management	**SQL , MongoDB , Node.js**

Projects

NFT Marketplace

Description: An online platform where users can buy, sell, and trade unique digital assets represented by NFTs.

Smart Contract Development:

 - Designed and deployed Ethereum smart contracts using Solidity to facilitate the minting, trading, and ownership transfer of NFTs.

 - Ensured the security and efficiency of smart contracts through rigorous testing and auditing.

Frontend Integration:

 - Developed a responsive and user-friendly frontend using React.js, enhancing the user experience.

 - Ensured seamless interaction with blockchain operations via Web3.js, enabling users to connect their wallets and perform transactions.

 Security Measures:

 - Implemented security protocols to protect against common vulnerabilities such as reentrancy attacks, integer overflow, and underflow.

 - Conducted code reviews and security audits to ensure the robustness of the platform.

Scalability Solutions:

 - Utilized IPFS for decentralized storage of NFT metadata and images, ensuring scalability and reliability.

 - Implemented lazy loading and caching mechanisms to improve application performance and user experience.

DBank

Description: A blockchain-based financial platform that operates without traditional banking intermediaries.

Decentralized Finance (DeFi) Protocols:

 - Developed smart contracts for lending, borrowing, and interest generation, ensuring transparent and secure financial operations.

 - Implemented collateral management and liquidation mechanisms to safeguard user assets.

User Interface Design:

 - Created an intuitive and user-friendly interface using React.js, enabling users to easily interact with DeFi features.

 - Integrated complex financial functions with a simple and accessible design, enhancing user adoption.

Blockchain Integration:

 - Ensured seamless integration with Ethereum blockchain, using Truffle and Hardhat for contract deployment and testing.

 - Implemented event-driven architecture to handle blockchain events and update the frontend in real-time.

Financial Analytics:

 - Developed real-time financial analytics and reporting tools, providing users with insights into their transactions and investments.

 - Utilized data visualization libraries to present financial data in an easy-to-understand format.

CryptoToken

Description: A hypothetical decentralized finance (DeFi) platform designed to facilitate token management, trading, and investment within the cryptocurrency ecosystem.

Token Management:

 - Developed smart contracts to handle the creation, distribution, and management of custom ERC-20 tokens.

 - Implemented token governance features, enabling users to participate in decision-making processes.

 Trading Platform:

 - Built a decentralized trading platform where users can trade tokens directly from their wallets, ensuring transparency and reducing transaction costs.

 - Integrated with popular decentralized exchanges (DEXs) to provide liquidity and enhance trading options.

Investment Features:

 - Implemented staking and yield farming functionalities, allowing users to earn rewards for participating in the network.

 - Developed automated market maker (AMM) algorithms to facilitate efficient trading and liquidity provision.

Testing and Auditing:

 - Conducted extensive testing and code audits using Mocha and Chai to ensure the security and reliability of smart contracts.

 - Collaborated with external auditors to perform comprehensive security assessments and resolve identified issues.

Internships

Backend Developer Intern | Swoon Sundae Pvt.Ltd.| | 07/23 - 09/23

Web Sockets Implementation:

 - Developed and integrated real-time communication features using web sockets.

 - Enhanced user interaction within applications by implementing efficient data broadcasting and receiving mechanisms.

User Authentication Techniques:

 - Implemented various user authentication methods, including OAuth 2.0, JWT (JSON Web Tokens), and traditional session-based authentication.

 - Ensured secure access to resources and user data through robust authentication and authorization protocols.

Database Management:

 - Managed large-scale databases using SQL and NoSQL technologies (e.g., MySQL, MongoDB).

 - Optimized database queries and schema design to improve performance and scalability.

 - Ensured data integrity and consistency through the use of ACID transactions and database indexing.

Backend Development:

- Built and maintained a robust backend infrastructure using Node.js and Express.js.

- Designed RESTful APIs to support front-end functionalities and external integrations.

- Employed middleware for logging, error handling, and security enhancements.

Agile Development Environment:

- Collaborated within an Agile development team, actively participating in daily stand-ups, sprint planning, and retrospectives.

- Contributed to sprint goals by delivering high-quality code and meeting deadlines.

- Utilized tools like JIRA and Trello for task management and progress tracking.

Certificates

- **<u>Successfully</u>** completed the course "**Become a UX/UI Designer! Master Mobile and Web Design, User Interface + User Experience (UI/UX Design), HTML, and CSS**" by Udemy
- **<u>Successfully</u>** completed the course "**Become An Ethereum Blockchain Developer With One Course. Master Solidity, Web3.JS, Truffle, Metamask, Remix & More**" on Udemy
- **<u>Successfully</u>** completed the course "**TensorFlow Developer . Become an AI, Machine Learning, and Deep Learning expert!**" by Udemy

I hereby declare that the information given by me is true to the best of my knowledge.
N T Surya Prakash Bhandari
(Signature)