

Surya Prakash Bhandari

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Skills

Languages: Solidity, Javascript, TypeScript, HTML/CSS, Python, Vyper, SQL .

Technologies & Tools: Ethereum, Web3.js / Ethers.js, Truffle, Hardhat, Ganache, IPFS, Node.js, React.js, Metamask, Remix, IDE, Infura, Geth, OpenZeppelin, Mythx, DFX, SQL, AIML, UI/UX Design, AWS, EC2, DynamoDB, S3, SQS, Lambda, Kubernetes, Docker, ReactJS, DevOps, Flask

Work Experience

Sync Ventures, Remote
Backend Developer Intern

Sept 2023 – Nov 2023

- I have **implemented** the following technologies like **Web Sockets, User Authentication** Techniques in the projects
- **Database Management, Backend Development, Agile Development Environment** while in the internship..
- **Contributed** to sprint goals by delivering **high-quality code** and meeting deadlines
- **Enhanced user interaction** within applications by implementing efficient data broadcasting and receiving mechanisms.
- **MySQL, Node.js, Express.js, Gauth, Laravel, Javascript, RestFull-API's, CICD.**

Projects

- **NFT Marketplace:** An online platform where users can buy, sell, and trade unique digital assets represented by **NFTs**.
 - Designed and Developed Smart Contracts: **Engineered** secure and efficient **smart contracts** using **Solidity** on the **Ethereum blockchain** to handle the **minting, buying, and selling of NFTs**, ensuring compliance with the **ERC-721** standard.
 - Built a Responsive Frontend: **Created** an interactive and user-friendly **interface** using **React.js** and **CSS**, integrating **Web3.js** to enable seamless interaction with the **blockchain**, allowing users to view, trade, and manage **NFTs** directly from the **marketplace**.
 - Implemented Backend Services: **Developed** the **backend** with **Node.js** and **Express.js** to manage off-chain data, handle **user authentication**, and interact with the **Ethereum network**, while using **IPFS** for **decentralized storage** of **NFT metadata**
- **Supply Chain using Web3:** **Developed** a **decentralized** supply chain solution using **Ethereum smart contracts** and a **React.js frontend** for real-time tracking and transparency
 - Developed Smart Contracts for Transparency: **Engineered Solidity smart contracts** on the **Ethereum blockchain** to track and verify each stage of the supply chain, ensuring **immutable** and transparent records of product movement from origin to destination.
 - Integrated Decentralized Data Storage: Utilized **IPFS** for **decentralized storage** of supply chain documents and product data, allowing secure, tamper-proof access to information by all stakeholders through **Web3.js** integration.
 - Created an Intuitive Web Interface: Designed a responsive **frontend** using **React.js** and **Bootstrap**, enabling users to interact with the supply chain data, monitor transactions, and **authenticate** product origins in real-time through **Metamask** and **blockchain interactions**.
- **CryptoToken:** A hypothetical **Decentralized Finance (DeFi)** platform designed to facilitate **token** management, **trading**, and **investment** within the **cryptocurrency** ecosystem.
 - Developed and Deployed ERC-20 Token: **Engineered** a custom **cryptocurrency** using **Solidity** on the **Ethereum blockchain**, adhering to the **ERC-20** standard for **token** creation, transfer, and management.
 - Integrated Token Functionality into Web Application: Implemented a user-friendly interface using **React.js** and **Ethers.js** to allow users to view balances, transfer **tokens**, and interact with the **smart contract** seamlessly.
 - Secured and Optimized Smart Contract: Conducted rigorous testing and optimization of the **smart contract** using **Truffle** and **Ganache**, ensuring secure **transactions** and **minimizing gas fees**, while following best practices for **blockchain security**.

Education

Dayananda Sagar University
B.Tech. in Computer Science and Engineering Specialization in AIML

Jan 2021 - Jan 2025
CGPA: 7.86/10

- Full-Stack Development
- Blockchain and Ethereum
- DevOps and Cloud computing
- DSA and OS.
- UI/UX Design
- AI, ML, DL
- Data Mining and image Processing
- Advance Data Structures and Algorithms