AAYUSH GIRI

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Skills

- Web2: Stack - JavaScript | TypeScript | C++ | C | Python | Rust | HTML | CSS | Node.JS | React.JS | Next.JS | WebRTC | Angular | Git
- Web3: Stack - Solidity | Hardhat | Chai | Mocha | EthersJS | Openzeppelin | IPFS | TheGraph | Uniswap V2 & V3 | Aave V3 | Alchemy
- EIP's : EIP20 | EIP721 | EIP1155 | EIP4642 | EIP777 | EIP4337 | EIP1559 | EIP1967 | EIP1167 − *All professional proficiency or above*

Experience

Blockchain Engineer Intern	**Clamp**	*India, Remote*	**01/2023 - 05/2023**

- Led the design and implementation of the blockchain **backend architecture** for the **live version**, demonstrating a deep understanding of blockchain systems and advanced technical skills. Implementing native account abstraction for contract accounts, enhancing the platform's flexibility and interoperability.
- Authored and deployed smart contracts using **Solidity**, **Hardhat**, **Chainlink** and **Uniswap**, also showcased proficiency in JavaScript, **TypeScript** and **Python** for script testing of the **production ready contracts**. Conducted rigorous testing using the **Chai-Mocha** framework.
- Led the development of B2C product, from identifying system requirements and partner dependencies to workload balancing, software implementation, engineering, testing, and configuring metrics, alarms, monitors, and dashboards.
- Managed the deployment of smart contracts on various EVM blockchains including **Arbitrum**, **PolygonPOS**, **PolygonzkEVM**, **Optimism**, and **ZkSync Era**, demonstrating a strong grasp of back-end development and data structures.

Blockchain Development Engineer Intern	**Rize Labs**	*Singapore, Remote*	**10/2022 - 12/2022**

- Specialized in **account abstraction** and smart contract wallets, enhancing user privacy, security and **cryptography**.
- Assisted in the design and development of new product features, enabling enhanced functionality within the prototype ecosystem.
- Compiled comprehensive documentation using **GitBook integration**, automating and optimizing understanding of the product logic.
- Led the creation of the frontend website using **React.JS**, **TypeScript**, **Node.JS**, completely automating the user-experience process.

Blockchain Research Intern	**Indian Institute Of Technology (ISM)**	*Dhanbad, India*	**06/2022 - 08/2022**

- Designed and implemented a **system architecture** addressing trust issues in the COVID-19 vaccine supply chain, demonstrating. innovation and technical expertise. And also compiled comprehensive **research documentation**, demonstrating strong collaboration skills and attention to detail.
- Developed smart contracts using **Solidity** to model the **supply chain system**, showcasing proficiency in back end development and **IPFS** for data storage. Also conducted rigorous testing and verification to ensure the system meets the highest standards, reflecting a commitment to quality and reliability.

Blockchain Engineer, Contract	**Uproot**	*USA, Remote*	**08/2022 - 10/2022**

- Assisted in **monorepo management** and smart contract development on EVM, including **restructuring the repo** and **conducting audits.**

Education

Bachelor of Technology	**Indian Institute Of Technology (ISM)**	*Dhanbad, India*	**12/2020 - 05/2024**

- Major in Electronics and Communication Engineering

Projects

- **SMART_SWAP:** blockchain-based system for secure and efficient battery swapping in electric vehicles 🔺**(02/2023)**
- **DROPCHAIN:** a decentralized Dropbox clone leveraging blockchain and IPFS for censorship-resistant file storage 🔺 **(08/2022)**

Mentorship

- **Blockchain Division CyberLabs:** Coding Mentor responsible for mentoring and giving career advice to aspiring blockchain developers
- **Student Mentor:** Student mentor of a team participating in the Jharkhand School Innovation Challenge (JH-SIC) 2022
- **Medium Contributor**: Blogging regularly to help keen learners of blockchain with fundamentals of Ethereum and Web3 development

Awards

- **Best Innovation Award @ETHGlobal Tokyo 2023**: Won sponsorship prizes from Bunzz, Polygon and Scroll for the hackathon project
- **Ethereum Protocol Fellowship 2022**: Delved in protocol and learn while working closely with ethereum core development community
- **Sponsorship Gift @ETHGlobal India 2022**: Won sponsorship gift from Cartesi for the project build on healthcare decentralization
- **Sponsorship Prize @ETHGlobal HackFS 2022**: Won sponsorship prize from XMTP Protocol for the project built using lenster
- **Semi - Finalist Eureka 2021**: EUREKA-2021 conducted by IIT Bombay (Asia's Largest Business Model Competition)