

MUSKAN VAISH

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SKILLS

- **Programming & Framework:** TypeScript/JavaScript, Golang, Solidity, Dart, Flutter, Node.js, Next.js, React, Redux, HTML, CSS, C++, Ether.js, Hardhat, Web3.js, OpenZeppelin
- **Blockchain & Cloud Infrastructure:** Ethereum, Docker, Kubernetes, Helm
- **Testing & Databases:** PostgreSQL, MongoDB, Git, GitHub Actions, CI/CD, Playwright

PROFESSIONAL EXPERIENCE

REDBELLY NETWORK

Chandigarh

Redbelly is a Layer 1 blockchain that is compatible with the Ethereum Virtual Machine (EVM) and features one of the most rapid consensus mechanisms available.

Associate Software Engineer

July 2023 - Present

Access Dapp

- Designed and developed a decentralized application (dApp) for user verification and network access, utilizing **Next.js, Node.js, and TypeScript** to enable seamless authentication across multiple networks via **WalletConnect**.
- Integrated **FrankieOne** and **Sumsb** for KYC verification, streamlining user onboarding while ensuring compliance.
- Optimized a **PostgreSQL database** for secure storage and efficient retrieval of verified user addresses.
- Linked the dApp to an **on-chain smart contract**, enabling smooth user authorization on the network.
- Leveraged **Wagmi** and **Ethers.js** for blockchain interactions and implemented robust **frontend and backend unit tests** to ensure reliable transaction execution.

Core Platform Development

- Designed several solidity smart contract functions including **2-step transfer ownership functionality**, etc. using **Solidity, Hardhat and Openzeppelin**.
- Integrated **Docker, Kubernetes, and Helm** to establish scalable, reproducible, and efficient test environments.
- Engineered and optimized **TypeScript-based deployment scripts** to automate smart contract deployment, significantly reducing manual intervention.
- Achieved **90% test coverage for smart contracts**, ensuring comprehensive validation and reducing deployment risks.
- Built a robust blockchain and smart contract testing framework with **Hardhat** and **Ethers.js**, enhancing execution reliability and minimizing manual testing efforts.

REDBELLY NETWORK

Chandigarh

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Software Engineering Intern

Jan 2023 - July 2023

- Presented a problem statement and proposed solution for hostel management, selected as the **flagship project** for the intern training program using **MERN Stack**.
- Spearheaded and engineered the workflow architecture and guided the team through feature detailing, brainstorming, and **Agile implementation**, overcoming challenges to meet requirements.
- Built key features like **warden registration, room allocation, and issue reporting**(e.g. - plumbing, maintenance).
- Optimized system performance for large-scale usage by implementing **database indexing** and **MongoDB aggregation pipelines**, improving query efficiency.
- Utilized **React Hook Form** for efficient form validation and state management.

EDUCATION

- **Bachelor of Engineering in Electronics and Communication Engineering**
CCET, Punjab University | CGPA: 8.80 (With Honours)

July 2019 - July 2023

Chandigarh