

Yogendra Sankhla

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EDUCATION

Birla Institute of Technology and Sciences, Pilani
B.E (Hons.) Electronics and Instrumentation Engineering

Goa
2023

WORK EXPERIENCE

Silence Laboratories

Software Security Engineer

Singapore(Hybrid)
Dec 2022 - Present

- Integrated privacy-preserving MPC workflows into AI agents, enabling secure inference on encrypted data across **distributed nodes** (use case: financial fraud detection) using **Silent Network's** sandboxed execution environment
- Developed 2FA-like "Swipe to Approve" for MetaMask transactions using Silent Shard's composable {2,2} TSS library, reducing key exposure risks by 90% while maintaining sub-20 ms latency.

Eth-India Fellowship

Ethereum Blockchain Developer

Bangalore
Mar 2023 - Apr 2023

- Selected among the top 0.5% of applicants for an intensive blockchain-focused fellowship.
- Created decentralized applications (**DApps**) including Simple NFT, a Decentralized Staking App, a Token Vendor, a State channel Application, and a DEX Challenge.
- Created a **Social recovery dApp**, a decentralized application that enables users to regain access to their accounts through a social guardian.

Summer of Bitcoin

Bitcoin Developer

Remote
May 2022 - Dec 2022

- Developed a **fully functional extension for Specter-Desktop**, enhancing its capabilities with a portfolio tracker that displays the purchase price of coins and tracks their performance, providing users with insightful investment analysis.
- Implemented features to monitor wallets and addresses for activity using a personal node, ensuring users are notified of any transactions or changes in real time.
- Built functionality to track the status of Bitcoin nodes, allowing users to link and monitor their node's performance and health effectively.

PROJECT WORK

OxBridge Core Protocol | Open Source Bitcoin PSBT Library

Blockchain Engineer(Open-source Contributor)

Oct 2024 - Jan 2025

- Implemented **PSBT** and **Taproot Protocol** for secure BTC cross-chain transfer in Go and Typescript.
- Developed AVS node infrastructure for decentralized **key management and validation**.
- Integrated cryptographic primitives and consensus mechanisms in Go to facilitate non-custodial Bitcoin locking and **1:1 pegged asset minting on EVM-compatible blockchains**.
- Optimized **light client** and **block header** submissions for protocol efficiency.

Live Audio Visualizer | Rust Audio Visualizer

Rust Audio Development

April 2024 - May 2024

- Engineered a high-performance audio visualizer and player in Rust, capable of **real-time FFT for dynamic visualization** and interactive features like real-time microphone input and marking musical notes.
- Incorporated playback functionalities including play, pause, seek, skip, and an automatic playlist loop, alongside a unique feature to save and replay favorite audio segments, enhancing user experience.
- Supported multiple audio formats such as **MP3, WAV, and FLAC**, optimized for speed and efficiency to handle complex audio processing tasks.

Decentralise-social-recovery | Project

Blockchain D-app Development

Oct 2022 - Dec 2022

- An end-to-end application that shards your private key/secrets into **shards** and sends it across to trusted human social accounts.
- Salient features include Collusion resistance, Implementation of the modified Shamir secret algorithm(n,t), and providing a secure backup option as there is no single point of failure. link

SKILLS

Skills: Rust, Go, MongoDB, NextJS, Solidity (Ethereum), Github, C++ Language, DSA, Flutter, React.js, JavaScript, Python, HTML

Extracurricular: Electronic Music Production, Badminton, Cricket and Personal Finance