

# Zubin Choudhary

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## Experience

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### FFreed | Founder

May 2024 - Present

- Developed **ffreed**, an account abstraction SDK designed to streamline the process of deploying smart contracts across multiple blockchains without the need for users to manage gas fees.
- Integrated **Shamir Secret Sharing** and **OAuth** for Ethereum private key management, providing enhanced security.

### Freelance + Open Source | Software Developer

January 2024 - Present

- Collaborated with Hyperlane.xyz to develop the Interchain Security Modules (ISM) system, implementing post-dispatch hooks for secure cross-chain messaging.
- Utilized the PolygonZkevm bridge to enhance cross-chain security.

### Stubs | Software Developer

December 2022 - October 2023

- Developed smart contracts for ERC721 and ERC1155 tokens, incorporating governance functionalities.
- Designed and deployed relayer services for abstracted transactions.
- Built a React.js grid system to showcase on-chain tokens and achievements.

### Sublime Finance | Software Developer

December 2021 - November 2022

- Built smart contracts for high-liquidity DeFi applications in collaboration with Solidity developers.
- Worked on off-chain identity verification using **EIP-712** and optimized frontend performance, reducing load times from 7-9s to 3s by implementing lazy loading and webpack code splitting.

### Freelance Open Source | Software Developer

July 2021 - December 2021

- Developed an extension for **Mask Network** using **Unlock Protocol** to provide paywalled content via Diffie-Hellman key sharing on a Gun database.
- Built a creator dashboard for token-holder access management for platforms like Discord using **Rally.io**.

### Google Summer of Code (Fedora, Red Hat) | Student Developer

April 2019 - August 2019

- Developed a GUI-based Linux application for downloading, testing, and reviewing packages.
- Migrated outdated Python2 API endpoints to Python3.

## Projects

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### ETH India

December 2023

- Built **Benjamin**, an account abstraction-based EVM wallet to simplify transactions, eliminating key management complexities.
- Integrated **web3auth.io** for key management, combined with **Safe Wallet** and **Gelato** relayers for a smooth AA experience.
- Demonstrated functionality through a series of swaps on 1Inch.

### Face Recognition Based Public Transport Wallet

Microsoft Imagine Cup Asia Finalists

- Developed a face recognition algorithm with 98% accuracy using one-shot learning.
  - Automated ticket pricing based on shortest route calculations using metro connectivity.
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## Education

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Bachelor of Computer Science

Bennett University, UP, India

June 2021