










ROUT CHAITANYA

PERSONAL PROFILE

A highly motivated and experienced Blockchain Software Engineer with over 5 years of experience in blockchain technology, specializing in Ethereum and Hyperledger platforms. Proven ability to analyze complex requirements and design robust business blockchain models. Seeking to leverage my expertise in development to contribute to innovative projects.

CONTACT

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EDUCATION

Veer Surendra Sai University Technology
Bachelor in Computer Science, 2019

PROFESSIONAL SKILLS

Technologies

- Blockchain
- Decentralized Finance
- Web Backend Development

Programming Languages

- Typescript
- Solidity
- Rust
- Golang

Blockchain Platforms

- Ethereum, Smart Chain
- Solana
- Hyperledger Fabric

Defi Platforms

- Uniswap V1, V2
- Aave V1
- Compound V1
- Synthetix V2, Horizon Protocol

Framework/Tools

- Foundry, Hardhat, Subgraph
- Solana Anchor,
- Docker, Git

Web

- NodeJs, Axum,
- OpenTelemetry

Databases

- MongoDB
- Redis
- PostgreSQL

HACKATHONS

Umbrella Network, BSC Developer Challenge

AUG 2021

- 1st PRIZE - Developed a smart contract defi project using Umbrella Oracle Network
- <https://medium.com/umbrella-network/umbrella-networks-bsc-developer-challenge-build-a-defi-app-on-bsc-using-our-decentralized-oracles-f96abae1cfa9>
- <https://youtu.be/FDMRyFW2Rn0?si=elulonCihjJlqWJN>

WORK EXPERIENCE

Horizon Protocol, Senior Backend Engineer

JAN 2022 - PRESENT

<https://horizonprotocol.com>

Core Protocol Smart Contracts

- <https://github.com/Horizon-Protocol/Horizon-Smart-Contract>
- Forked and customized Synthetix V2 smart contracts.
- Analyzed, tested, and reviewed smart contracts using Hardhat.
- Deployed core protocol contracts on multiple testnets and mainnets, including BSC Testnet and Arbitrum Sepolia.
- Transferred protocol ownership from an Externally Owned Account (EOA) to a Gnosis Safe multisig wallet.

Protocol Upgrades

- <https://sips.synthetix.io/all-sip/>
- Conducted continuous research and analysis of protocol mechanisms and improvements using Synthetix Improvement Proposals (SIPs).
- Tested and upgraded core contracts in alignment with Synthetix's GitHub updates

Perpetual Exchange

- <https://app.horizonprotocol.com/futures/>
- Forked Kwenta, a Synthetix derivatives trading product.
- Analyzed, tested, and reviewed perpetual smart contracts using Foundry.
- Deployed contracts to both testnets and bsc-mainnet.
- Order Executor Keeper - Engineered an Order Executor Keeper backend (Node.js) that monitors on-chain events, fetches real-time prices from the Binance API, and executes orders in batches.

Protocol Subgraphs

- <https://thegraph.com/studio/subgraph/bsc-exchanges/playground>
- Developed subgraphs to index on-chain events, creating npm packages for seamless front-end integration.
- Managed the creation, updating, and grafting of the protocol's subgraphs on a regular basis

Protocol Maintenance

- Liquidation keeper - Built a Liquidation Keeper backend (Node.js) to monitor user collateralization ratios and liquidate accounts below the minimum threshold, ensuring the protocol's health and stability.
- Developed and deployed automated jobs on AWS EC2 servers, including cron jobs for blockchain transactions on both testnet and mainnet.
- Created an admin backend for real-time process monitoring.
- Integrated Telegram notifications for critical system alerts, such as low funds in admin wallets.
- Integrated Chainlink automation and Gelato functions for some regular automated tasks.
app.gelato.network/functions/task/

Xpanse Trade

- <https://xpanse.trade/trade/BTC>
- Contributed to an intent-based derivatives exchange powered by [Symmio](#)
- Managed smart contract deployment and integration with Symmio contracts on Base, Mode, and Arbitrum networks.
- Order Executor Keeper - Developed the Order Executor Keeper backend (Node.js) to monitor on-chain events and execute orders in batches.

Mobiloitte Technologies, Senior Software Engineer

SEPT 2020 - JAN 2022

<https://www.mobiloitte.com/>

Yield Farming

- Forking of Goose Finance
- Adding Reentrancy prevention to Masterchef code
- Allocating fee distribution to the dev and fee address
- Adding a referral program module
- Ensure contract execution with a timelock

SmartSwap

- Intermediate contracts between user and uniswap
- Swapping and adding liquidity to uniswap using contracts.
- Implementing the slippage ratio in the frontend.

Ethereum - Binance Bridge

- Implementation of Bridge smart contracts
- Converting ERC20 tokens to BEP20 tokens.
- Atomic Swap using Hash Timelock contracts.

NFT Marketplace

- A marketplace for buying and selling nfts with erc20s
- Auction module with platform fees

IDO Platform

- Smart contracts development for different token presales.
- Fees implementation for various elements like platform, ico creator, investors
- Adding liquidity to uniswap
- Time module for bonus investors

Kleros

- Working on the EIP-792 standard
- Use of arbitration as a service
- Escrow as a service

Aave V1 Understanding

- Connecting smart contracts with the aave-protocol
- Segregating the different components and running the code.
- Understanding of stable/variable loans, interest bearing tokens, and uncollateralized flashloans.
- Linking contracts with the price oracles of ChainLink

Stellar Blockchain

- Stellar token issuance
- Using the stellar-sdk for creating apis.

Navaratan Technologies, Software Engineer

SEPT 2019 - JUL 2020

<https://navtech.io/>

Property Chain

- Involved in rapid bootstrapping of private networks using hyperledger fabric
- Writing shell scripts to automate code deployment for fabric networks and chaincode
- Heavily involved in writing and deploying smart contracts using golang
- Working on fabric-sdk using nodejs for client application
- Worked on various encryption and cryptography node packages
- Implementing nodejs rest-apis for attribute routing, message handlers, signed JSON tokens
- Working with docker containerization on daily basis
- Working on front end frameworks like angular and ruby on rails on a daily basis