**Bhargav Kacharla**

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### EXPERIENCE

### Novastro Bangalore, India

### *Core Engineer* June ‘22 - present

### Developed RWA tokenization platform for real-estate using ERC-3643 with on-chain Compliance, identity registry for token issuance.

### Architected and developed prediction market protocol in Solidity with cross-protocol yield generation via Aave, Stader, and Quickswap.

### Developed subgraphs for indexing events with graph protocol.

### Led the development of Bitarch.io revolutionary cross-chain bridge aggregator protocol that optimizes cross-chain swap routes across 15+ bridges.

### Developed a comprehensive cross-chain swap SDK and API suite with standardized interfaces, enabling third-party DeFi applications to seamlessly integrate BitArch's cross-chain functionalities

### Developed smart contracts and backend to build decentralised exchange Warpgate.pro in Aptos Move compatible with Aptos Coin and Fungible Asset standard.

### Developed token launchpad Hatchy.fun in Solana with rust, built smart contracts with Anchor framework.

### Built a backend analytics system that indexed blockchain events in real-time, enabling comprehensive trading metrics, liquidity provider performance tracking, and protocol-wide statistics.

### Xalts Bangalore, India

### *Lead Blockchain Engineer* Dec ‘23 - Mar *‘*24

### Implemented Account abstraction(ERC4337) for EVM chains like Polygon, Avalanche subnet and Hyperledger Besu.

### Developed in-house infrastructure for Account abstraction with skandha bundlers.

### Managed infrastructure for running nodes of different blockchain networks and bundlers.

### Architected smart contracts for asset tokenization for financial institutions.

* Built in-house indexer for EVM chains with Typescript, GraphQL and MongoDB.

### Oddz Bangalore, India

### *Blockchain Engineer* Jan ‘21 - Dec ‘23

### Led the development of smart contracts in Solidity for Oddz protocol(https://www.oddz.fi/), creating a comprehensive options trading platform with advanced features for purchase, staking, and liquidity provisioning.

### Pioneered research on derivative trading in the crypto ecosystem, building a protocol with yield generation mechanisms and enhanced trading capabilities

### Developed a staking platform for liquidity providers and ODDZ token holders to get maximum yield in ODDZ token along with platform fee discount.

### Implemented gasless transactions using OpenZeppelin Defender and Biconomy relayers improving user experience.

### Developed an automation framework for expiring the options, distributing staking reward, auto-adjusting the pool risks leveraging Openzeppelin, Chainlink Keepers, and Gelato network, creating a self-executing DeFi ecosystem

### Rakuten Bangalore, India

### *Data Engineer* Oct ‘20 - Jan ‘21

### Architected Datalake for Rakuten telecom department for data scientists to develop intelligent models.

### Research big data technologies for building Datalake to handle petabytes of data using MinIO and YugaByte.

### Collaborated with various teams to ingest various kinds of data into data lake.

### OpenText Bangalore, India

### *Senior Software Engineer* Jul ‘18 - Sept ‘20

### Developed custom solutions on OpenText product RightFax.

### Developed REST services using Web API.

### Developed web applications using .Net MVC , javascript and jquery.

### Architect custom solutions for the RightFax users.

### Writing efficient code adhering to industry standards and participating in code reviews.

### Expertise in TypeScript and developing services, custom directives in angular.

### Designed SQL server database for web applications.

### Tata Consultancy Services Bangalore, India

### *Software Engineer* May ‘15 - Jun ‘18

### Worked as C#.Net developer in developing web applications for various customers.

### Worked on .Net MVC Framework and used various web technologies like HTML, CSS, JavaScript,jQuery for developing a web application.

### As a member of the Automation CoE team, developed custom solutions to automate the manual tasks in the team and hence reducing the team count.

**SKILLS & INTERESTS**



* **Programming Languages:** Typescript, [Node.js](http://node.js), Solidity, Rust, Move
* **Backend stack:**  AWS, MongoDB, Postgres, MySQL
* **Core skills:** Backend Engineering, smart contract development, smart contract security

**EDUCATION**

**SASTRA University** Thanjavur, India

Bachelor of Technology in Computer Science and EngineeringMay ‘15