Ashitosh Bhade

Sr. Solutions Engineer | Blockchain Developer | dApp Developer

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About

Innovative and detail-oriented Solutions Engineer with deep expertise in blockchain technologies. Skilled in architecting decentralized applications, designing smart contracts, and building full-stack Web3 solutions. Strong foundation in Solidity, JavaScript, TypeScript, React.js, Node.js, Next.js, Web3.js, and Ethers.js. Proven ability to translate complex product requirements into scalable blockchain products.

Education

- **Diploma in Information Technology**

    - Government Polytechnic, Pune

- **Bachelor of Engineering in Computer Science**

    - Vishwakarma Institute of Information Technology (VIIT), Pune

Technology Skills

Blockchain Expertise:

- **ERCs:** ERC1155, ERC721, ERC20, ERC2981, ERC4337.

- **Tools:** Truffle, Hardhat, Foundry, Solidity, Web3.js, Ether.js, chai.js, IPFS, Subgraphs, viem.

- **Third Party Integrations:** Thirdweb, Reservoir, Crossmint, Magic.link, OpenAI, Heygen, Chainlink, Uniswap, Sushiswap, Coinbase, OpenZeppelin.

- **Chains:** Polygon, Ethereum, BSC, Base.

- **Expertises:** Smart contracts, NFTs, Marketplace, ICO, Vaults, Airdrops, Yield farming, External Farming, Upgradable Smart Contracts, DAO, Smart Wallets, Token Bridges, Automated Payments.

Languages and Frameworks:

- Javascript, Typescript, Node.js, Next.js, Solidity, React.js, Pixi.js.

Other Technical Expertise:

- Git, REST APIs, CI/CD

Lifecycle Management:

- Agile, Scrum.

Tools:

- Jira, LucidChart, Postman, Confluence, Figma.

Experience

Blockchain Developer at Deqode | 2020 - Present

- **Full Lifecycle Smart Contract Development:** Led the development, rigorous testing, secure deployment, and meticulous verification of numerous smart contracts across major blockchain networks including Ethereum, Polygon, and Binance Smart Chain.

- **Token & NFT Innovation:** Engineered and audited a diverse portfolio of smart contracts, encompassing ICOs for ERC20/BEP20 tokens, complex crowd-sale mechanisms, and non-tokenized solutions. Pioneered advanced NFT solutions (ERC721, ERC1155) with integrated ERC2981 royalty standards, and developed robust NFT marketplaces and Airdrop contracts.

- **DeFi & Automated Solutions:** Designed and implemented sophisticated DeFi protocols (e.g., Uniswap, Sushiswap, Curve) for `zap-in` and `zap-out` functionalities, enabling single-token liquidity provision/removal. Developed smart contracts for automated subscription payments leveraging Chainlink Upkeeps and integrated DEXs for efficient token swaps.

- **dApp & Web3 Integration:** Designed and built comprehensive dApps, developing intuitive UI components (including Pixi.js for game interfaces) and seamlessly integrating them with blockchain backends using React.js and Web3.js. Expertise in integrating third-party blockchain services like OpenSea SDK/API for marketplace functionalities.

- **Advanced Wallet & Transaction Capabilities:** Implemented meta (gasless) transaction support and integrated cutting-edge smart wallet features, including ERC4337 for sponsored transactions, passkey login flows (Thirdweb), and smart wallet generation with Google accounts.

- **Data & Middleware Architecture:** Architected and deployed subgraphs using The Graph protocol for real-time monitoring and querying of smart contract events via GraphQL. Developed robust Node.js middleware to ensure seamless communication between dApps and blockchain ledgers.

- **Product & System Design:** Translated intricate product requirements into tangible technical specifications and high-quality, scalable software code. Designed comprehensive smart contract architectures, prepared detailed UML diagrams, and collaborated effectively with cross-functional engineering teams to drive the realization of complex business ideas, ensuring timely delivery and product quality.

Major Projects

Zapper.fi

- Worked on developing and testing the smart contracts for "zap-in" and "zap-out" functionalities.

- Explored various protocols like Uniswap, Bancor, Curve, Balancer, and SushiSwap to create `zapIn` and `zapOut` contracts for providing/removing liquidity to/from liquidity pools using a single token.

- Developed and tested the ICO contract, adding meta-transaction support using Biconomy.

- **Tech Stack:** Ethereum, Truffle, Solidity, Chai, Node.js.

Real Asset

- Created ERC20 token and DAO contract.

- **Tech Stack:** Ethereum, Truffle, Solidity, Chai.

La-Cucina

https://app.lacucina.io/dashboard

- Designed the product architecture and created the product specification.

- Developed the ERC721 and ERC1155 NFT contracts, adding royalties to NFTs.

- Developed the Marketplace for ERC721 and ERC1155 NFT contracts.

- Developed subgraphs using The Graph protocol and integrated them with UI using GraphQL.

- Integrated the UI with blockchain using React and Web3.js.

- Created the Airdrop contracts for the NFTs.

- **Tech Stack:** Javascript, Typescript, React.js, GraphQL, Solidity, Chai, Truffle, IPFS, BSC Chain.

PumaPay

https://app.pumapay.io/#/connect

- Developed, tested, and deployed smart contracts for automated payments based on different billing models.

- Developed the dApp for automated payments.

- Integrated Chainlink Upkeeps for performing auto-payments.

- Integrated DEXs like Uniswap and SushiSwap for swapping tokens for payments.

- Added event monitoring service for smart contracts.

- **Tech Stack:** Javascript, Typescript, React.js, Nest.js, GraphQL, Solidity, Chai, Truffle.

- **Third Party Services Used:** Chainlink.

BlinkPlanet

https://www.blinkplanet.com/

- Worked on creating the dApp and integrated the OpenSea SDK/API for creating sales/ auctions for NFTs and other operations.

- Implemented the wallet connect feature.

- Developed React components according to Figma designs.

- Developed the NFT marketplace for both non-fungible and semi-fungible tokens.

- Developed the Factory contract for NFT collections to dynamically deploy NFT collection contracts.

- Added event monitoring services for marketplace and collection smart contracts.

- **Tech Stack:** Javascript, Typescript, React.js, Node.js, Nest.js, Solidity, Chai, Truffle, Hardhat, Material UI, Blockchains.

- **Third Party Services Used:** Chainlink, Magic.

Cityverse Tycoon

https://www.cityversetycoon.com/

- Developed UI components in Pixi.js game.

- Added the passkey login flow using Thirdweb.

- Added smart wallet generation with Google accounts and passkey.

- Added NFT checkout flow with credit cards and crypto payment using Crossmint.

- Added secondary marketplace flows using Reservoir.

- Developed the NFT Marketplace dApp using Next.js.

- Created POCs for transforming ideas to well working solutions.

- Added the smart wallet (ERC4337) feature for sponsored transactions.

- Created AI Avatar host using Heygen and OpenAI which answers users real-time questions with voice feature.

- **Tech Stack:** Javascript, Typescript, React.js, Solidity, Thirdweb, Crossmint, Pixi.js, Next.js, Tailwind CSS, Reservoir, Vite, Vercel.

- **Third Party Services Used:** Thirdweb, Reservoir, Crossmint, Heygen, OpenAI.