

# 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, The Graph.
- **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, DeFi.

### Languages and Frameworks:

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

### Other Technical Expertise:

- Git, REST APIs, CI/CD

## 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

- Developed and tested the smart contracts for "zap-in" and "zap-out" functionalities.
- Explored various protocols like Uniswap, Bancor, Curve, Balancer, and SushiSwap to create zap-in and zap-out 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.

## **Blink Planet** | <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.