

# Chirag Patel

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## ABOUT

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Blockchain Developer with nearly a year of experience Specializing in **EVM-based smart contract architecture** and L2 scaling solutions. Skilled in bridging on-chain logic with off-chain backend services, including **gas-optimized Solidity development**, **Merkle proof generation**, and secure database management. Passionate about DeFi, Cross-chain interoperability, and building scalable systems on Ethereum and L2s.

## EXPERIENCE

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### Software Developer | Knackroot Technolabs LLP

Sep 2025 – Present

- Currently architecting a decentralized **Perpetual Futures** trading platform, implementing core logic for leverage, liquidation engines, and real-time Oracle integration.
- Implemented a meme token using **SuperchainERC20**, enabling seamless cross-chain bridging and interoperability across the **OP Stack** ecosystem.
- Conducted technical feasibility analysis and requirements gathering for a custom stablecoin prototype, translating client needs into viable system architecture.
- Architected a gas-efficient Merkle Airdrop system; built the Solidity vesting contracts and the Node.js backend service to generate and store Merkle proofs.
- Integrated **World ID** and off-chain signatures to validate unique user identities for a reward-based survey platform, preventing Sybil attacks.

### Intern | Knackroot Technolabs LLP

Feb 2025 - Aug 2025

- Gained hands-on experience in blockchain fundamentals and Web3 development lifecycles.
- Focused on mastering **Solidity** smart contract development, prioritizing gas-efficient algorithms and industry-standard security techniques.
- Implemented secure, upgradeable contracts using proxy patterns to ensure long-term maintainability.

## SKILLS

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**Core Blockchain:** Ethereum L1, Secure Upgradeable Contracts, Solidity, Foundry, Hardhat, Proxy Patterns (UUPS, Transparent), OpenZeppelin, Subgraph

**DeFi & Architecture:** Uniswap V2/V4 (Hooks), Perpetual Futures, Chainlink (Oracles, Automation), Stablecoins, Merkle Proofs, EIP-712, Gas Optimization

**L2 Ecosystems:** OP Stack (Optimism), World Chain, Cross-Chain Bridging, SuperchainERC20

**Backend & Database:** TypeScript, Node.js, Express.js, MongoDB, PostgreSQL, GraphQL, Merkle Tree Generation

**Languages:** Solidity, JavaScript, TypeScript, Rust, Java, Python

## EDUCATION

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2021 – 2025 Bachelor of Computer Engineering, **LDCE – Ahmedabad**

CGPA: 8.28

2019 – 2021 Higher Secondary School, **AB School - Chikhli**

94 %