

# Karri Sunil Reddy

Bargarh, Odisha 768040

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## EDUCATION

### Gangadhar Meher University

*Master of Computer Applications (MCA)*

Sambalpur, Odisha

*Exp. May 2026*

**Relevant Coursework:** Data Structures (DSA), OOPs, DBMS, Operating Systems, Computer Networks

### Vikash School of Business & Management

*Bachelor of Computer Applications (BCA)*

Bargarh, Odisha

*May 2024*

## TECHNICAL SKILLS

**Programming Languages:** Rust, C++, TypeScript, JavaScript, Solidity

**Blockchain:** Solana (Anchor), Web3.js, SPL Token Standard, Hardhat

**Web Technologies:** Next.js, React.js, Node.js, Express, Tailwind CSS

**Developer Tools:** Git, Docker, Linux (WSL)

**Spoken Languages:** English, Hindi, Telugu, Odia

## PROJECTS

### Higher (Solana Betting Game) | *Rust, Anchor, Next.js*

- Architected a decentralized "King of the Hill" game on Solana Devnet where the final bidder claims the pot.
- Developed custom **Anchor smart contracts** to ensure trustless liquidity distribution.
- Implemented **PDAs (Program Derived Addresses)** for secure on-chain state management.

### Sun Launcher | *Solana Web3.js, React, Metaplex*

- Built a no-code launchpad enabling users to mint and deploy **SPL Tokens** in under 60 seconds.
- Integrated Metaplex standards for seamless metadata management (images, tickers) on-chain.
- Designed a responsive UI with Tailwind CSS to simplify blockchain interactions for non-technical users.

### Advance Vote | *Rust, Anchor, React*

- Created a token-gated governance dApp where voting rights are verifiable via asset ownership.
- Utilized **CPI (Cross-Program Invocations)** to execute secure instruction calls between programs.

### Sol Swap (P2P Exchange Protocol) | *Rust, Anchor, Next.js, TypeScript*

- Architected a trustless, atomic swap protocol allowing users to trade any SPL token pair without a liquidity pool.
- Developed custom **Anchor programs** utilizing **PDAs (Program Derived Addresses)** to create secure, non-custodial escrow vaults for every trade.
- Engineered a smart client-side service that automatically handles **WSOL wrapping/unwrapping** and ATA creation within a single transaction.
- Implemented **Cross-Program Invocations (CPI)** to safely transfer assets and close vaults upon trade completion or refund.

### Sunlet (HD Wallet Generator) | *TypeScript, Next.js*

- Engineered a Hierarchical Deterministic (HD) wallet generator implementing **BIP-44 derivation paths** for Solana (m/44'/501').
- Built a secure **Seed Import** feature allowing users to recover and generate unlimited child accounts from a single mnemonic phrase.
- Utilized **Ed25519** cryptography to deterministically derive private keys, ensuring full compatibility with major wallets like Phantom.
- Implemented client-side entropy generation to create cryptographically secure 12/24-word seed phrases without server interaction.

## EXPERIENCE

### Freelance Developer

*Full Stack & Blockchain*

Remote

*May 2024 – Present*

- Delivered custom web applications for clients using the React and Node.js ecosystem.
- Built and deployed prototype smart contracts for startup concepts in the Web3 space.