VIDIT GALAV

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Education

**Indian Institute of Information Technology Ranchi (*B. Tech. in Electronics and Communication Engineering)*

Experience

Blockchain Developer | GoldPesa-Whitebeard, Dubai (Remote) *(Full-Time)*

• **Lead Engineer** of GoldPesa's decentralized ecosystem, designing **Uniswap V4 liquidity hooks** and **immutable smart contracts** to govern 100M GPX tokens, ensuring censorship-resistant, ownerless protocols with permanently locked liquidity.

• **Pioneered AI-integrated DeFi mechanics**, embedding the Pawn algorithm into smart contracts to drive real earnings via forex marketmaking, fueling GPX's buy-and-recirculate model for sustainable value appreciation.

• **Engineered GoldPesa's core protocol** (Base L2) with CertiK-audited security, deploying advanced tokenomics (demand-driven supply, 1% transaction fee model) and staking mechanisms (GoldPesa Mine) to optimize liquidity and scalability.

• Spearheaded R&D for institutional-grade solutions (GPO options) to enable large-scale participation without market disruption, enhancing ecosystem resilience.

• **Launched trustless infrastructure** via **autonomous smart contracts**, eliminating intermediaries and establishing GoldPesa as a globally compliant digital gold standard with $0 slippage and tamper-proof liquidity pools.

 •**Designed and built a Pump MarketCap** project that automates token creation via a token factory, deploying hooks and pump mechanisms to dynamically adjust liquidity for secure token launches.

•Enabled influencers to launch personal tokens for social engagement and marketing, leveraging the pumping functionality to amplify social media interactions and drive token-based campaigns.

Blockchain Consultant | AAK Tele Science, California (Remote)(Part-Time)

• **Architecting a native blockchain-based currency payment system** enabling researchers, collaborators, and investors to transact seamlessly, with automatic conversion to USDC for settlement.
• **Designing end-to-end token ecosystem supporting secure payments**, modular cross-chain smart contracts, and banking-grade integrations for financial compliance.
• **Implementing advanced DeFi primitives** (gasless ERC20 transactions, escrow, and auction mechanisms) alongside enterprise-grade security for scalability, upgradeability, and protection against exploits

CTO & Co-Founder | Limix AI 2024 – Present

- **Architected Limix AI**, an AI-powered smart contract IDE for Solana chain, reducing development time by 40% through AI-driven code generation, real-time error detection, and automated testing.
- **Led technical vision** for cross-chain compatibility (Solana, Ethereum, Polygon), integrating syntax highlighting for Rust/Solana, one-click deployment, and audited security protocols.
- **Spearheaded MVP development**, prioritizing core features: AI-assisted code completion, gas-optimized contract templates, and mock data generation for testing, achieving fastest build times for Solana programs.
- **Scaled engineering team** to deliver Phase 1 MVP (editor, build system, local validator deployment) ahead of schedule.

Blockchain Developer | Contract based Global Projects – Dec 2022 – Dec 2024

- **Casinc Project (Argentina-based):** Architected and developed Developed a two-contract system on Solana for Casinc, comprising a Casinc Contract for managing deposits, bets, winnings, and withdrawals, and an Admin Contract for multisig governance, game parameter management, and user privileges. Utilized SPL Token Program, PDAs, and multisig frameworks to ensure secure, efficient operations. Integrated randomness via VRF for fair gameplay and optimized on-chain storage using the Anchor framework. Deployed and rigorously tested on Solana devnet.

- **DEX & Tradingview Platforms:** Contributed to backend services for real-time trading data, multi-chain integration, and blockchain security, enabling smooth execution of token swaps and liquidity pool interactions.

- **Smart Contract Developer (StreamNFT) -**

Blockchain Developer specialized in Solana and Ethereum. Building Web3.0 based cutting-edge protocols for Staking, Rent, and Loan, utilizing NFTs as collateral to revolutionize decentralized finance. Focused on optimizing gas costs and ensuring contract security through testing and robust architecture. senior smart contract developer to ERC-7066, enabling lockable NFTs that remain in self-custody while restricting transfers, enhancing safety, utility, and liquidity without compromising ownership.

January 2023 – May 2023

- **Bitcoin Talents (Frankfurt School Blockchain centre at Frankfurt school of finance & Management),** Remote Worked in an 18 week long mentoring program which was offered by Frankfurt School Blockchain centre to only 100 talented Bitcoin enthusiasts across the globe. Working on Bitcoin open-source projects, Lightening network applications & protocols emphasizing security and scalability.

April 2023-July 2023

- **DeFi Talent (Frankfurt School Blockchain centre at Frankfurt school of finance & Management)** Mentee in an 18-week long DeFi Talent program initiated by FSBC, gained in-depth expertise in DeFi protocols, tokenomics, and decentralized applications with advanced DeFi concepts including liquidity pools, yield farming, staking mechanisms, and tokenization frameworks. innovative use cases in decentralized governance, AMMs, and cross-chain interoperability to design scalable DeFi solutions.

Projects: -

Property Verse (ongoing project) "Property Verse" is an ongoing Decentralized Real Estate project, utilizing blockchain to tokenize properties, enabling fractional ownership. The smart contract automates financial calculations, ensuring transparency, liquidity, and accessibility. Users can mint and trade ERC20 tokens representing property aspects, empowering informed investment decisions without intermediaries.

NFT Marketplace (Full-stack Ethereum-based NFT Platform): Developed a gas-efficient Solidity-based platform for NFT minting, trading, and ownership tracking. Integrated OpenZeppelin libraries for secure ERC-721 token implementation. Optimized listing functions to reduce transaction costs by 30% .

TokenStaker : Built a secure staking mechanism with Solidity, featuring proportional reward distribution and robust user interactions. Achieved 20%, reduction in contract deployment gas costs using advanced storage patterns .

Flash Loan Arbitrage on PancakeSwap : Implemented a flash loan arbitrage strategy on Binance Smart Chain (BSC) using PancakeSwap, leveraging flash loans to exploit token price discrepancies across trading pairs. Developed a Solidity-based smart contract with secure trading logic repayment mechanisms, and reentrancy protection.

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Degree/Certifications/Skills: -

Ethereum Developer Degree – LearnWeb3

Achieved the Grandmaster Rank, demonstrating expertise in smart contracts, Ethereum development, and decentralized applications (DApps).

Certifications: *Blockchain on Polygon edge, Advanced VRF v2 Expert, Curator (Graph Protocol), Solana Dapp Developer, Internet Computer Protocol, Account Abstraction Wallet, Flow Blockchain, Lens Protocol, Developer on Polkadot*

Blockchain Technologies: Ethereum, Solana, Hyperledger, zk-SNARKs, Layer 2 Solutions, NFTs, Smart Contracts, DeFi Protocols

Programming Languages: Solidity, Rust, Go, Nodejs, Express, React, Nextjs, JavaScript, Python, C++

Development Tools & Frameworks: Web3.js, Foundry, Truffle, Hardhat, Mocha, Chai, MythX, Slither, Postman, Docker, IPFS, Infura, Alchemy, Ethers.js, Anchor, SPL, CPI utilities, Wormhole SDK