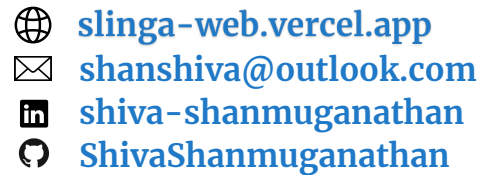# Shiva Shanmuganathan

Senior Blockchain Engineer with 3+ years of experience building production-grade smart contracts using EIP-2535 (Diamond Standard). Open to high value contract and technical leadership roles.

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WORK EXPERIENCE

Senior Blockchain Engineer (May 2022 – Jan 2025)
Laguna Games, San Francisco (Remote)

- Led core engineering at Laguna Games for Crypto Unicorns, which reached **50k+ DAU**, generated **$25M in NFT sales**, hit **$100M in TVL**, and launched **token at a $2.5B FDV.**
- **Developed 20 ERC-2535 Diamond Proxy projects, 250+ smart contracts, and 50,000+ lines of Solidity code.**

Core Systems Development

- **Game Bank (Project Owner):** Built the core in-game economy system, managing **$3M TVL** and **10,000+ unique NFT holders**. Enabled seamless management of **RBW, UNIM, Dark Marks, Lootbox, Keystones, and other in-game resources**.
- **Twilight Tactics & Shadowforge (Project Owner):** Led the development of the **fully onchain game**, where players engage in a battle between **Shadowcorns** and **Unicorns**. Implemented a **queue-based rewards system**, driving **$1.5M** in user rewards and achieving a **+70% retention rate for daily active wallets**.
- **Satellite Bank (Project Owner):** Designed and implemented the system for managing in-game economies for 2nd-party games and apps.
  - **Role-Based Permissions:** Hierarchical roles for secure access.
  - **App Economy:** Publisher fees on in-app purchases.
  - **Queue + Server-Side Signing:** Secure, fair reward claims.
- **Marketplace (Project Owner):** Built an **Onchain Marketplace** for seamless peer-to-peer asset trading.
- **Primecore Presale (Neo Olympus):** Built a gas-efficient presale system using **Merkle Tree** for fair token distribution, and efficient allowlist management.

Key Assets Development

As the primary developer, developed the core NFT assets of Crypto Unicorns and Neo Olympus.

- **Primecore (Neo Olympus):** Designed and developed a **hybrid DN404 + Diamond Standard system** featuring a **reroll function**, allowing users to spend $PC tokens to change NFT metadata via **UniswapV3 swaps**.
- **Unicorns:** The primary NFT characters used in gameplay, farming, breeding, and battles. Unicorns are the backbone of the game's economy, with **10,000+ unique holders** and **8M+ minted assets**.
- **Shadowcorns:** The dark counterpart to Unicorns, used in Shadowforge for faction-based gameplay and rewards. Shadowcorns drive engagement in the Shadowforge game, with players competing for daily rewards.
- **Land:** Virtual real estate where players can build farms, breed Unicorns, and generate in-game resources. Land NFTs are central to the game's play-to-earn mechanics, with **2000 ETH in sales** and significant user engagement.

Ecosystem Migration & Cross-Chain Infrastructure

- Migrated **200+ smart contracts** from Polygon to **Xai** (L3 Arbitrum), achieving **90%+ user retention**, **$12.9M TVL**, and **900K+ transactions**. Built bridges for **$CU ($RBW)** and **$UNIM** using **LayerZero** and **Arbitrum** enabling seamless asset transfers.

EDUCATION

- **Rareskills:** Advanced Solidity Bootcamp, Rust Bootcamp
- **Encode:** Expert Solidity Bootcamp
- **SRMIST:** Bachelor of Technology in Computer Science Graduated: 2021

SKILLS

- **Token Standards:** ERC-20, ERC-721, ERC-1155, ERC-1967, Diamond Standard (ERC-2535)
- **Frameworks:** Foundry, Brownie, Hardhat, Ethers.js, Anchor, Next.JS
- **Programming:** Solidity, Python, JavaScript, Rust