

HARSHED ABDULLA

✉ harshed2004@gmail.com [LinkedIn](#) [GitHub](#) 📞 +91 9188020170

Technical Skills

Smart Contracts & EVM: Solidity, Foundry, Hardhat, OpenZeppelin, EVM internals, gas optimization, security patterns

Systems Programming: Rust (Wasm), Go (Hyperledger Chaincode), async concurrency, actor-model patterns, memory optimization

DeFi & Protocol: MEV capture/redistribution, lending mechanics, liquidation logic, interest rate models, oracle integration (Chainlink), tokenomics, governance mechanisms

Security & Testing: Fuzz testing, invariant testing (Foundry), reentrancy analysis, flash loan vectors, oracle manipulation, access control, smart contract auditing

Ethereum Ecosystem: ERC-20, ERC-721, ERC-4337 (Account Abstraction), ERC-7579, Ethers.js, Web3.js, Chainlink VRF/Automation

Platforms: Ethereum, Polygon, BSC, Hyperledger Fabric, Internet Computer (ICP), Solana

Backend & Infra: Node.js, Fastify, TypeScript, Python (FastAPI), PostgreSQL, Redis, Docker, Kubernetes (EKS), AWS

Experience

Blockchain Developer

Apr 2025 – Present

Kireap *On-site*

- Designed and deployed **ERC-20 token** contracts on Polygon with reserve-backed issuance controls, admin-controlled mint/burn lifecycle, compliance-aware supply management, and **on-chain audit trails**, with strict attention to reentrancy guards, access control, and input validation.
- Built **token distribution engine** with configurable allocation logic, batch claim processing, vesting schedules, and **gas-optimized** transfer flows minimizing storage writes and calldata for cost efficiency at scale.
- Engineered **wallet integration layer** with **ERC-4337 account abstraction**, WebAuthn-secured smart accounts, and gasless transaction relaying, designing secure session key management and paymaster interaction flows.
- Architected traceability system on **Hyperledger Fabric** via AWS Managed Blockchain and EKS with multi-org **consensus policies**, Go chaincode, and CouchDB state queries across distributed nodes.
- Developed Node.js/TypeScript backend services (Fastify) integrating on-chain and off-chain systems: wallet APIs, distribution triggers, balance queries, and real-time **monitoring via WebSocket feeds**.

Rust Developer

Jan 2025 – Mar 2025

Elna.ai *Remote*

- Migrated canister backend from Motoko to **Rust/Wasm** on Internet Computer, optimizing **cryptographic serialization** and stable memory management, reducing memory footprint by 30% and improving execution reliability.
- Redesigned inter-canister communication with **async message passing**, fault-tolerant state rollback, and **actor-model concurrency** patterns for high-throughput orchestration across distributed components.

Blockchain Developer Intern

Jun 2024 – Aug 2024

Elna.ai *Remote*

- Built dApp on **Internet Computer** with wallet-based authentication, on-chain content storage via certified asset canisters, and **decentralized access control** with cryptographic verification.

Projects

SME Lending Protocol | *Undercollateralized DeFi Lending* | Solidity, Hardhat

[Source](#)

- Engineered DAO-governed lending contracts with **on-chain credit scoring**, reputation NFTs, **variable interest rate curves**, community-validated underwriting, and automated **liquidation logic** with oracle manipulation and flash loan mitigations.

Consensus Sentry | *On-Chain Governance Framework* | Rust, ICP

[Source](#)

- Built decentralized **governance system** in Rust with proposal/voting mechanics, threshold-based rule enforcement, and **cryptographic verification** of participant eligibility across distributed nodes.

Achievements

- Arkane Track Winner – **ETHIndia 2024**
- 2nd Prize – **Elna.ai DeAI Hackathon**
- Runner Up – **Intel oneAPI Hackathon**

1st Prize – **BeachHack 5**
2nd Prize – **TCS Hackathon**

Education

Cochin University of Science and Technology

2021 – 2025

B.Tech in Computer Science & Engineering

Ernakulam, India