ABDELRAHMAN HOSSAM

Smart Contract Engineer

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Summary

Smart Contract Engineer backed by 4 + years of data-engineering, now pursuing a Solidity-centric protocol role. I developed Ethereum contracts using **Solidity, Hardhat, and Ethers.js**, tested by audit tooling such as **Slither and SuMo**. Also, i have developed Solana programs using **Rust**. Key projects include **Rocketmeme API**, a sub-4 milliseconds Solana trading gateway, and an **Orca CLMM delta-hedging bot** that auto-rebalances liquidity to minimize impermanent loss. I'm eager to bring this real-time data and security focus to shipping battle-tested De-Fi primitives at scale.

Skills

Languages: Solidity · Rust · JavaScript

Tools: Hardhat · Slither · SuMo · Node.js · Ethers.js · Web3.js · gRPC

Databases: Redis · MySQL · PostgreSQL · Apache NiFi

Experience

STC Riyadh, Saudi Arabia
Data Engineer 03/2021 - Present

- Streamlined ETL pipelines, boosting daily throughput 25 %
- Cut guery latency 50 % by refactoring SQL and deploying targeted index strategies
- · Automated CI/CD for data services on Linux, enabling zero-downtime releases to All production nodes

Education

Metana

Web3 Solidity Bootcamp 02/2025 - 07/2025

The German University in Cairo

Bachelor's degree, Computer Software Engineering

01/2015 - 01/2020

Projects

Rocketmeme Trading API - Solana

rocketmeme.io

Developed a Solana meme coin trading API to enable developers to automate trades and build custom bot integrations

- Engineered a Rust/Node API that executes 20 + Solana trades per second with sub-4 milliseconds latency
- · Reduced round-trip delay by piping orders through Redis queues and gRPC streaming calls
- Rolled out AWS Global Accelerator to keep worldwide request latency below 100 ms
- Shipped a lightweight PWA so non-technical users can trigger trades from any device

CLMM Bot with Delta Hedging - Solana

Developed a CLMM bot with delta-hedging system for automated market making on Solana

- Coded a CLMM bot using Node.js and Web3.js that auto-repositions liquidity ±3 % every 40 minutes
- Integrated Orca and Hyperliquid protocols to implement delta-hedging impermanent-loss mitigation
- Bundled open + close instructions into one transaction, cutting rebalance cost to 0.00001 SOL
- Added volatility-aware logic that widens ranges during spikes, boosting fee capture

NFT Minting & Forging System - Ethereum

github.com/abdelhossam/drakesmith

Developed a decentralized NFT minting and forging system on Polygon using ERC1155

- Wrote gas-efficient ERC-1155 and controller contracts using Solidity for multi-asset NFT management
- · Added OpenZeppelin batch-mint/burn with cooldown guards to block spam and protect scarcity
- Deployed on optimized gas costs, including batch minting and efficient cooldown tracking

Ethereum's analytics dashboard - Ethereum

https://github.com/abdelhossam/block-metrics

Developed a real-time Ethereum analytics dashboard for live blockchain data visualization using Alchemy and Ethers.js

- Built a React dashboard streaming USDT transfers, base fees, and gas usage per block
- Pulled data via Alchemy getLogs/getBlock, enabling every 10 seconds live chart updates