Aman Ullah
Senior Smart Contract Engineer & Security Researcher

SUMMARY

- 7 years of specialized experience in blockchain development, focusing on DeFi protocol design, security tokens, NFT marketplaces, and Web3 wallets.
- Proficient in Solidity (4 years), Go, Typescript, JavaScript, and Java, with hands-on expertise in Forge, Hardhat, Truffle, and Foundry Fuzz for smart contract development and security analysis.
- Led end-to-end projects including a Hyperledger private blockchain handling $3M+ remittance inflows and a real estate tokenization system reducing property transfer time to under 1 day.
- Skilled in integrating blockchain with backend services and frontend.
- I have a strong foundation in blockchain security research and development methodologies.

TECHNICAL SKILLS

Main Technical Skills	Solidity, TypeScript, JavaScript
Programming Languages	JavaScript, Solidity, TypeScript
JavaScript Libraries and Tools	Ethers.js, Web3.js
PHP Frameworks	Laravel Forge
JavaScript Frameworks	Node.js, React
Amazon Web Services	AWS EC2, AWS Lambda
Blockchain and Decentralized Software	DeFi, ERC-1155, ERC-20, Ethers.js, Foundry, Hardhat, Hyperledger, Linea, Truffle
Virtualization, Containers and Orchestration	Docker, Kubernetes
SDK / API and Integrations	GraphQL
Other Technical Skills	Blender 3D, Slither

WORK EXPERIENCE

Blockchain Consultant - Akru (Smart Contract Modules Integration and Security Audits)

Duration: March 2024 - Present
Summary:

- Collaborated with the CTO to enhance existing blockchain codebase by integrating new modules, focusing on gas efficiency, security, and transaction cost reduction
- Conducted internal audits and maintained fuzz testing suites to ensure smart contract reliability

Responsibilities:

- Collaborated directly with CTO to integrate new modules into existing codebase.
- Guided team in developing and shipping new features and modules.
- Designed development practices focused on gas efficiency, security, and reduced transaction costs.
- Conducted internal audits and maintained fuzz testing suite for smart contracts.

Technologies: Solidity, Forge, Anvil, Cast, Hardhat, Slither, Echidna, Medusa, Foundry Fuzz

Senior Blockchain Developer - Metastaq Inc. (NFT-based Community Management and Web3 Wallet Development)

Duration: July 2022 - September 2023
Summary:

- Designed and developed smart contracts on Ethereum Mainnet and Layer 2 for NFT-based community management systems and royalty standards
- Led the development of a non-custodial Web3 wallet for Web2 users, integrating secure private key management and fiat on-ramp services

Responsibilities:

- Designed and developed NFT-based community management systems with perks and tier management.
- Delivered NFT projects with ERC-2981 royalty standard integration.
- Authored technical proposals for NFT community integration.
- Spearheaded build of non-custodial Web3 wallet modeled after Magic using AWS identities.
- Implemented Shamir's Secret Sharing for private key management.
- Added native Web3 support including connect-wallet and MetaMask flows.
- Integrated Wert as fiat on-ramp service.

Technologies: Solidity, Ethereum Mainnet, Layer 2, AWS, Shamir's Secret Sharing, Wert, Web3Js, MetaMask

Blockchain & Backend Engineer - Akru (Fractional Real Estate Tokenization and Asset Management System)

Duration: March 2021 - October 2022
Summary:

- Led the design and development of a real estate ownership and transfer system using security tokens compliant with STO, ERC-20, and ERC-1400 standards

- Developed backend services and APIs, integrated digital signature solutions, and implemented dividend distribution for property profits

Responsibilities:

- Designed, developed, and maintained features across production products.
- Built end-to-end features from smart contracts to backend services.
- Designed and developed APIs for frontend consumption.
- Worked with STO, ERC-20, and ERC-1400 token standards for compliant security tokenization.
- Integrated DocuSign for digital signatures during tenant onboarding.
- Implemented dividend distribution system for property profits.
- Led project end to end, collaborating with CEO and UI/UX teams.
- Integrated local third-party providers for payment and billing.
- Developed prototype reducing property transfer process from months to 2 days.

Technologies: Solidity, STO, ERC-20, ERC-1400, DocuSign, Backend APIs

Junior Blockchain Developer - Ovex (Banking Blockchain Solutions and Hyperledger Private Blockchain)

Duration: March 2019 - March 2021
Summary:

- Developed and supported blockchain applications tailored to banking systems, integrating blockchain with AI-driven risk analysis
- Developed chain code in Golang for Hyperledger and smart contracts in Solidity for Ethereum
- Managed blockchain infrastructure and mentored team members

Responsibilities:

- Proposed blockchain-based solutions for banking systems.
- Analyzed, designed, developed, and supported blockchain applications.
- Integrated blockchain systems with AI-driven risk analysis pipelines.
- Developed chain code in Golang (Hyperledger) and Solidity smart contracts.
- Connected blockchain infrastructure with web applications using Web3Js and fabric-network SDKs.
- Mentored and trained new team members.
- Managed task allocation and deadlines.
- Built and maintained custom forks of Bitcoin and Ethereum nodes.

Technologies: Golang, Hyperledger, Solidity, Ethereum, Web3Js, fabric-network SDK, Bitcoin, Ethereum nodes

Developer - PAIC Hackathon (Health Record System - Web3 Patient Health Record)

Duration: January 2019
Summary: Developed a Web3 version of a Patient Health Record system during a hackathon, focusing on decentralized and secure health data management.
Responsibilities:

- Built a Web3 Patient Health Record system.

EDUCATION

- **Bachelors of Computer Science**
  University of South Asia Lahore
  August 2014 – August 2016
- **Master Of Computer Science**
  University of Management and Technology
  August 2017 – August 2019