

SHAFE ALI KHAN

Blockchain engineer with hands-on production experience across the full Web3 stack, from Solidity smart contracts and EVM internals to TypeScript backends and cloud infrastructure. Known for building novel infrastructure with no existing blueprint, from operator onboarding systems to oracle pipelines.

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in shafe-ali-khan-277530224

🐦 Shafekhan

SKILLS

- **Languages:** JavaScript, TypeScript, Solidity, Python, React, HTML/CSS
- **Blockchain & Web3:** Ethereum, Arbitrum (L2), ERC-20, ERC-721, ERC-1155, Ethers.js, Hardhat, Remix, OpenZeppelin, MetaMask, WalletConnect, Chainlink, SIWE
- **Security & Auth:** RSA-OAEP, Ed25519, SHA-256, JWT, reentrancy guards
- **Backend & APIs:** Node.js, Express.js, REST APIs, MySQL, PostgreSQL, Redis
- **Infra & DevOps:** GCP, Docker Compose, GitHub Actions, Render, Vercel, Firebase, Linux, PowerShell, Bash
- **Testing & Tooling:** Mocha, Chai, Pytest, Postman, Git

WORK EXPERIENCE

Prime Ambit Private Limited

Blockchain Developer

Sept 2025 - Present

- Built a secure operator onboarding pipeline for [RigworkZ](#) with **encrypted** agent-to-backend communication and wallet-based authentication via **SIWE**.
- Designed a machine identity and **fingerprinting** system for RigworkZ with **cryptographic** audit traceability across telemetry batches.
- Developed and deployed the RigworkZ [ERC-20](#) token with configurable tax logic, automated fee conversion, multi-wallet ETH distribution, **timelock** governance, and anti-whale controls, externally [audited](#), live on Ethereum **mainnet**. Evaluated **Arbitrum L2** bridging strategies for future contract migration.
- Architected a **WalletConnect** v2 integration with multi-provider support, **whitelist-gated** access, and real-time UI sync.
- Built production [websites](#) with technical **SEO** and **geo-targeted** indexing.

PROJECTS

RigworkZ Telemetry Validation Engine [↗](#)

- Async oracle service that cross-validates live mining machine data against pool APIs, returns a cryptographically signed compliance verdict, and includes retry logic, state caching, and a full observability stack.

ERC-1155 Fractional Mining Rig Ownership [↗](#)

- ERC-1155 smart contract enabling fractionalised ownership of physical mining rigs, with fixed shares per rig, pro-rata reward distribution, oversell protection, and OpenZeppelin security patterns. Includes a comprehensive Hardhat test suite with full validation on Arbitrum testnet.

EDUCATION

United College of Engineering and Research

Bachelor's of Technology, Computer Science

Aug 2021 - June 2025

CERTIFICATE

Ethereum Blockchain Developer Bootcamp [↗](#)

- Solidity, EVM, dApps, smart contracts, and NFT's

Full Stack Web Development Bootcamp [↗](#)

- React.js, Node.js, REST APIs, MongoDB, Web3