

# Adil Husain

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## Internship

### Full Stack Developer Intern | [Techbug](#)

July 2024 - October 2024

- Built and deployed scalable Node.js and React.js applications and CMS dashboards using Docker and AWS (EC2, S3), Cloudinary, improving workflows and enabling real-time insights via Google Analytics.
- Implemented JWT-based authentication with RBAC; improved API performance and reliability using Redis caching, rate limiting, and optimized queries.
- Enhanced scalability and response times through server-side pagination, indexing, and Node.js clustering with worker threads.
- Developed an event-driven email system to automate user and inventory alerts, removing manual processes.

## Projects

### [ClawPay](#) | [React.js](#), [FastAPI](#), [Solidity](#), [Lithic API](#), [TailwindCSS](#), [OpenClaw Agent](#) | [Live Link](#) | [Demo](#) | [GitHub Repository](#) Feb 2026

- Created a secure payment layer that enables AI agents to make purchases on any website that supports Visa or Mastercard as payment options. AI agents can issue single-use virtual cards by depositing a preferred amount of USDC into an on-chain escrow contract deployed on the Arbitrum blockchain, eliminating user's personal card exposure while providing agents with access to a monitored payment option that the user can fund on a pay-as-you-go basis.
- Designed a Solidity escrow smart contract, a FastAPI backend integrated with the Lithic API for exact spend-limit single-use virtual cards, and MCP server tools for seamless integration with Claude/OpenClaw agents via ethers.js

### [NeverPay](#) | [Next.js](#), [Solidity](#), [AaveV3](#), [LI.FI bridge](#), [Gemini API](#), [TailwindCSS](#) | [Live Link](#) | [Demo](#) | [GitHub Repository](#) Feb 2026

- Built a DeFi-powered platform that allows users to deposit money as USDC and generate yield earned via Aave V3 pool on the deposited amount, which gets turned into platform credits. These credits can be used across a built-in marketplace (e.g., image generation, file conversion tools), while users retain full control and can withdraw their original funds at any time, with a 5% platform margin applied to generated yield.
- Implemented YieldVault smart contract on Base blockchain to automate yield accrual and convert yield into platform credits (50 credits per \$1). Added LI.FI bridge for cross-chain deposits, RainbowKit for wallet interaction, and secure API routes for Gemini API.

### [Arbipic](#) | [React.js](#), [Node.js](#), [IPFS](#), [TailwindCSS](#) | [GitHub Repository](#) January 2026

- Built an on-chain photo verification platform that allows users to capture images via webcam and cryptographically verify their authenticity on the blockchain, preventing AI-generated or manipulated media from being falsely represented as real.
- Captured images are hashed and stored on IPFS, with verification proofs recorded on an Arbitrum Orbit L3 blockchain using Stylus smart contracts (Rust), enabling tamper-proof validation and ownership verification through cryptographic commitments.
- Constructed the application for real-time capture and verification flows, with multi-network support within Arbitrum blockchain, and optimized on-chain operations achieving ~60-70% gas savings compared to Solidity-based implementations.

### [TAAS](#) | [React.js](#), [Solidity](#), [TailwindCSS](#) | [Demo](#) | [GitHub Repository](#) October 2025

- Created a decentralized escrow platform for rental agreements on the TON blockchain, allowing landlords and tenants to transact without intermediaries by locking security deposits into smart contracts with predefined terms and automated fund handling.
- Deposits are held in escrow and deployed for a yield generation (~5% APY) during the rental period. At contract completion, the original deposit is returned to the tenant while the generated yield is transferred to the landlord, enabling passive returns without compromising fund ownership.
- Implemented escrow smart contracts on TON for agreement enforcement and deposit management, along with automated logic for yield allocation and final settlement between participants.

### [VIBE](#) | [React.js](#), [Node.js](#), [TailwindCSS](#), [MongoDB](#), [AWS Bedrock](#) | [Live Link](#) | [Demo](#) | [GitHub Repository](#) July 2025

- Constructed an AI-powered educational gaming platform that generates time-constrained quizzes and fact-checking games from PDFs, text prompts, YouTube links, or web pages using AWS Bedrock LLM APIs.
- Introduced a reward-based system where game creators deposit a predefined budget via crypto wallet, dynamically calculated based on number of questions, participants, and reward per score, enabling transparent and automated prize distribution to participants.
- Incorporated server-side caching with Redis to reduce latency and improve performance, along with rate-limiting and clustering for scalability. Built backend and smart contract logic on the Somnia blockchain to handle game generation, scoring, and reward allocation.

## Certificates

Data Structures and Algorithms | Boards Infinity - [Certificate](#) October 2024

## Technical Skills

**Languages** : JavaScript, Java, Python, SQL, CSS, HTML, Solidity

**Frameworks & Technologies** : Node.js, React.js, PostgreSQL, MongoDB, TailwindCSS, Redis, Git, Linux Scripting, AWS EC2, AWS S3

## Achievements

Arbitrum APAC Mini Hackathon - Honourable Mentions prize (\$100)	January 2026
TOKEN2049 Origins hackathon Singapore - 3 <sup>rd</sup> prize (\$1500)	October 2025
Somnia DeFi hackathon - 2 <sup>nd</sup> prize (\$1500)	October 2025
Somnia mini games Hackathon - 2 <sup>nd</sup> prize (\$100)	August 2025
Microsoft x InnoQuest Ideathon - 2 <sup>nd</sup> position	September 2024
TRON HackaTron Season 7 - 4 <sup>th</sup> prize (\$8000)	November 2024

## Education

Computer Science Engineering - Lovely Professional University, Jalandhar-Punjab	Since 2022
Intermediate with Science - Doon Public School, Mohammadi-Uttar Pradesh	2019-2021