

Abdul Rahman

Protocol Risk Analyst

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SUMMARY

Two years on a live Solana perps exchange, on the parts that have to be right: margin and liquidation mechanics, oracle and vault safeguards, reconciliation against the chain, unattended monitors and alerts, and LLM workflows with deterministic checks. I write the spec, build with AI coding tools, and verify the result before it ships.

EXPERIENCE

Protocol Risk Analyst

Jan 2025 – Aug 2026

Flash.trade — perpetual-futures exchange on Solana

- Specified and ran a 24/7 vault monitor checking every deposit and withdrawal against the chain from two independent sources, with Telegram alerts. It flagged a public \$98K over-withdrawal exploit as it happened; the team fixed it and reimbursed users.
- Ran an AI-directed forensic investigation of the exploit: traced 11 attacker wallets to one operator, mapped a six-day probing campaign, and followed the funds cross-chain to Ethereum; recommended exchange and Chainalysis flagging.
- Reconciled the exchange's reported state against Solana mainnet: decoded all 898 trading accounts, tested the 165 open positions against the protocol's own rules (all passed), and re-verified 48 of 48 after the V2 migration.
- Defined the KPIs for, and delivered, the live dashboards the team works from: utilisation, custody balances, oracle mark-to-market PnL, and position and collateral reconciliation across 10 pools, 44 custodies and 65 markets, from chain state.
- Set up independent oracle monitoring that compares the exchange's mark prices with a Pyth feed and alerts on a 1.5% deviation.
- Delivered a natural-language trading interface for 34 markets on the Flash.trade API, with deterministic intent routing from real user phrasing, so common commands run without a model call and every model output is parser-checked before signing.
- Wrote competitive-analysis reports comparing Flash.trade with competitors on execution, fees, features and UX.

Business Analyst Intern

Jul 2024 – Dec 2024

Flash.trade

- Wired live price and position feeds into market-data and position reporting, with regression checks that caught bad data early; documented the on-chain data model that later reconciliation work was built on.

Data Science Intern

Jun 2023 – Jul 2023

SkillDzire

- Training in Python, statistics and applied machine learning: regression and decision-tree exercises (Pandas, Matplotlib, Seaborn).

PROJECTS

Flow Sentinel | vault-outflow monitor, July-Sep 2026, archived

flash-flow-sentinel.vercel.app

- Ran unattended on the exchange's vaults until the protocol wound down: hourly outflow limits, exact-unit balance checks and an independent oracle cross-check, alerting when its two data sources disagreed. Every figure traced to a real transaction.

Flash V2 On-Chain Census | final verified reconciliation, 7 July 2026

flashtrade-v2-onchain-census.vercel.app

- Decoded every basket, position, order, custody and market account from the exchange's rollup and reconciled them to the protocol's own totals to the raw integer: 64 of 64 market sides exact (508 positions in 433 baskets across 10 pools), locked and reserved amounts per custody, and 27 of 27 vaults backed with zero deficit.

Vault Accounting Proof Harness | devnet replica of the same checks, source public

github.com/Abdr007/flash-v2-census-devnet

- Marks PnL from on-chain oracle accounts with no external API, and certifies the custody-to-position identities exact over 10,000+ checks; 8 of 8 market sides reconciled over 10 consecutive live runs.

Solana Perpetuals Risk & Solvency Dashboard | SQL on Dune Analytics

dune.com/abdrlabs

- Activity, retention, execution reliability, wallet concentration. Showed the protocol's own fee-payer wallets were 51% of apparent activity, and that a 95% fall in L1 instruction volume was order matching moving to a faster layer, not lost usage.

Also on github.com/Abdr007: **Builder Terminal**, a command-line terminal that turns plain-English instructions into trades on the Flash.trade API, with a deterministic parser and signing guards in front of every order.

TECHNICAL SKILLS

Protocol risk & monitoring: margin and liquidation rules, funding and borrow-rate models, oracle checks, vault solvency invariants, real-time monitors and alerting (Telegram), incident response

Data & analysis: SQL (Dune Analytics, PostgreSQL), on-chain account decoding, reconciliation and invariant checks, KPI definition, dashboards, Excel; Python (working knowledge)

Business analysis: requirements (BRD/FRS), Agile/Scrum, UAT, JIRA, stakeholder reporting, competitive research

AI-assisted delivery: building from a spec with AI coding tools (Claude Code, Codex), with tests and verification; LLM workflows with deterministic checks; prompt design and LLM evaluation

Blockchain: Solana, perpetual futures and order books, Pyth oracles, vault and collateral reconciliation, exploit investigation and cross-chain tracing

EDUCATION

Osmania University

2020 – 2024

Bachelor of Engineering in Computer Science and Engineering, GPA 7.96/10

CERTIFICATIONS

In progress (2026): Azure AI-103 (AI Apps & Agents Developer), AI-901 (AI Fundamentals) · AWS AIF-C01 (AI Practitioner)

Completed: Palo Alto Cloud Security Fundamentals (2025) · Cisco CCNA (2024) · Guinness World Record participant (2018)