Trace the Black Market Flow
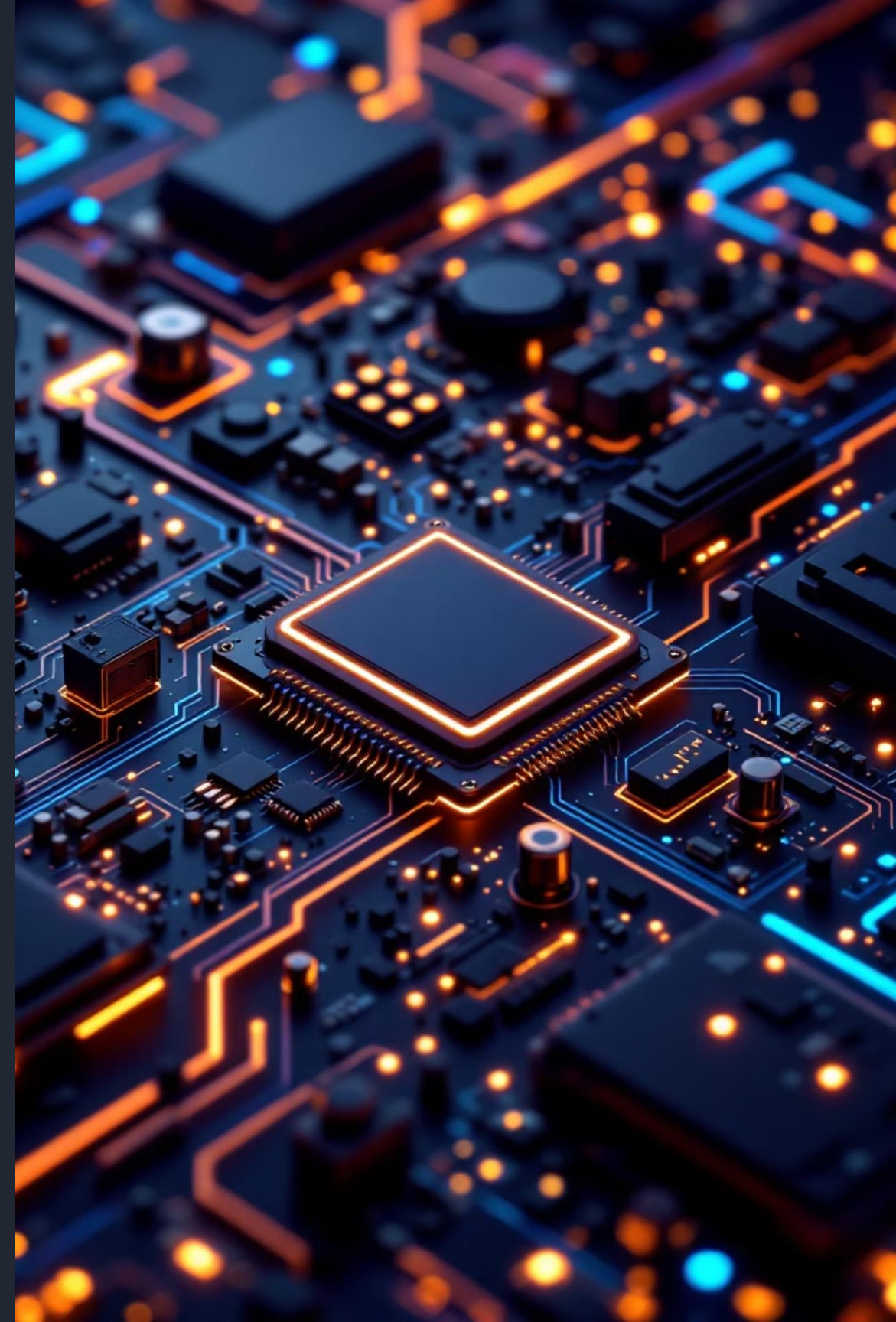
SQL Investigation | Digits n Data

Mission 4

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The Crisis: Unveiling the Threat
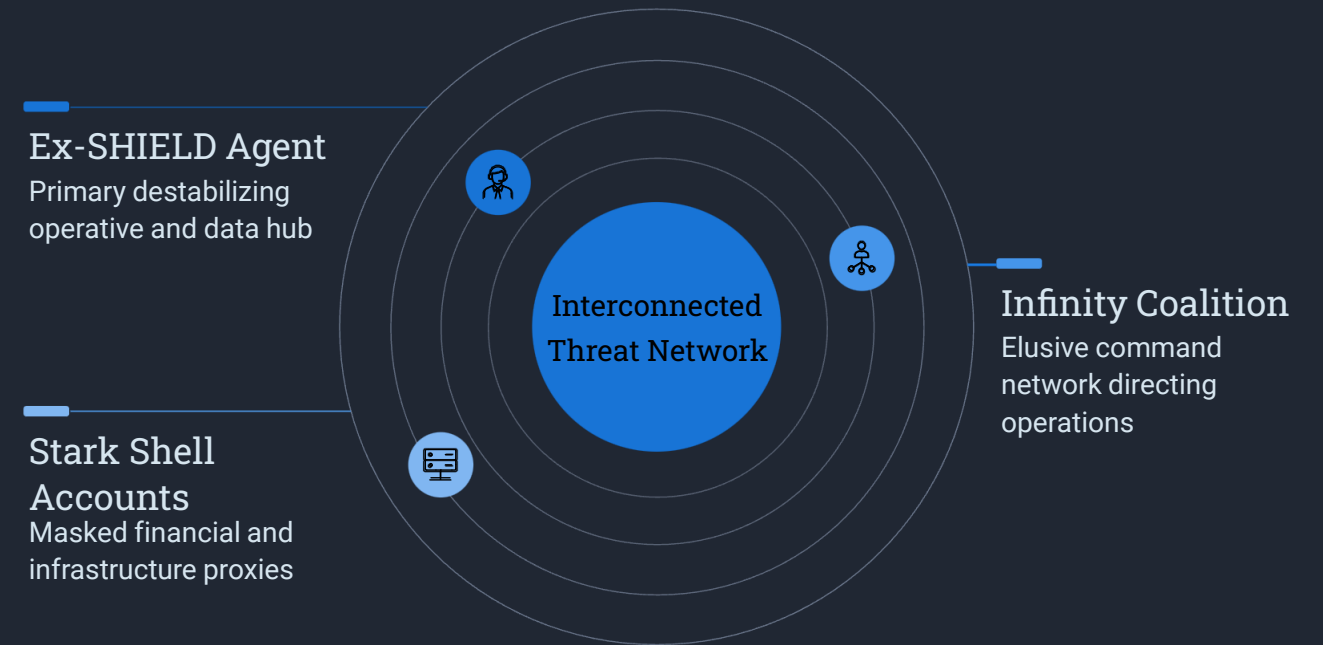
Former Agent Identified

A high-level ex-SHIELD operative has been identified as a primary destabilising force.

Infinity Coalition Link

This rogue agent is now operating under the command of the elusive Infinity Coalition.

Stark Account Anomaly

Suspicious shell accounts, with direct links to Stark Industries' financial network, have been detected.

Ex-SHIELD Agent
Primary destabilizing operative and data hub

Interconnected Threat Network

Infinity Coalition
Elusive command network directing operations

Stark Shell Accounts
Masked financial and infrastructure proxies

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Something Was Off: Detecting the Anomaly

Money ≠ Motive

Initial financial analyses did not align with the observed tactical movements of the Coalition.

Hidden Energy Patterns

Unusual energy transfer signatures were detected, concealed within seemingly innocuous financial transactions.

Quantum Materials Movement

Evidence suggests clandestine transfers of quantum materials, moving silently outside conventional monitoring.

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Data Assets: Our Investigative Toolkit

Account_Holders

Comprehensive database detailing all registered financial accounts and their associated entities.

Stark_Transactions

Detailed ledger of all transactions originating from or linked to Stark Industries' financial infrastructure.

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Find the account holder who received the largest total transfer from QUANTUM_FLOW accounts in the last 7 days.

Approach: Our Investigative Pipeline

Step 1: Identify Senders

Isolate all accounts designated as 'QUANTUM_FLOW' senders within the database.

Step 2: Filter Recent Data

Apply a temporal filter to include only transactions occurring within the last 7 days.

Step 3: Join Transaction Data

Consolidate sender and receiver transaction records to establish complete data trails.
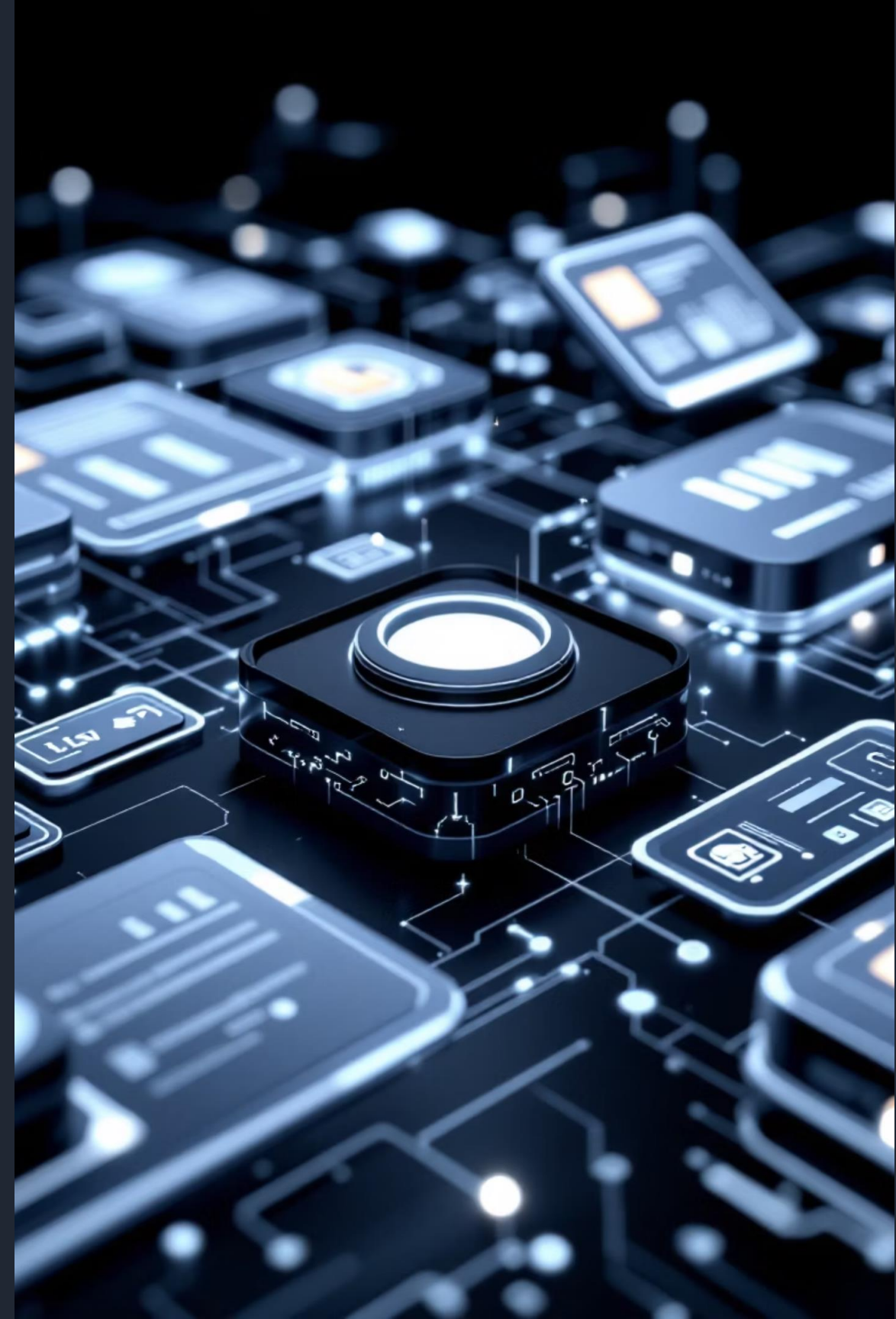
Step 4: Aggregate Totals

Calculate the cumulative sum of all received amounts for each unique account holder.

Step 5: Rank & Extract

Order the aggregated results in descending order and identify the top recipient.

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SQL Logic Used: Precision in Code

JOIN Clauses

To link transaction records with account holder details.

WHERE + Date Filter

To restrict data to the 'QUANTUM_FLOW' origin and the specified 7-day window.

SUM + GROUP BY

To compute total transfer values per recipient account.

ORDER BY DESC + LIMIT

To rank recipients by total amount and retrieve the highest.

```sql
SELECT
  ah.HolderName, SUM(st.Amount) AS
total_received
FROM
  Stark_Transactions AS st
JOIN
  Account_Holders AS ah
ON st.ReceiverAccount = ah.AccountID
WHERE
  st.SenderAccount IN (
  SELECT AccountID FROM Account_Holders
  WHERE HolderName LIKE '%QUANTUM_FLOW%'
)
AND st.TransactionDate >= (
  SELECT DATE(MAX(TransactionDate), '-7 day')
)
GROUP BY
  ah.HolderName
ORDER BY
  total_received DESC
LIMIT 1;
```
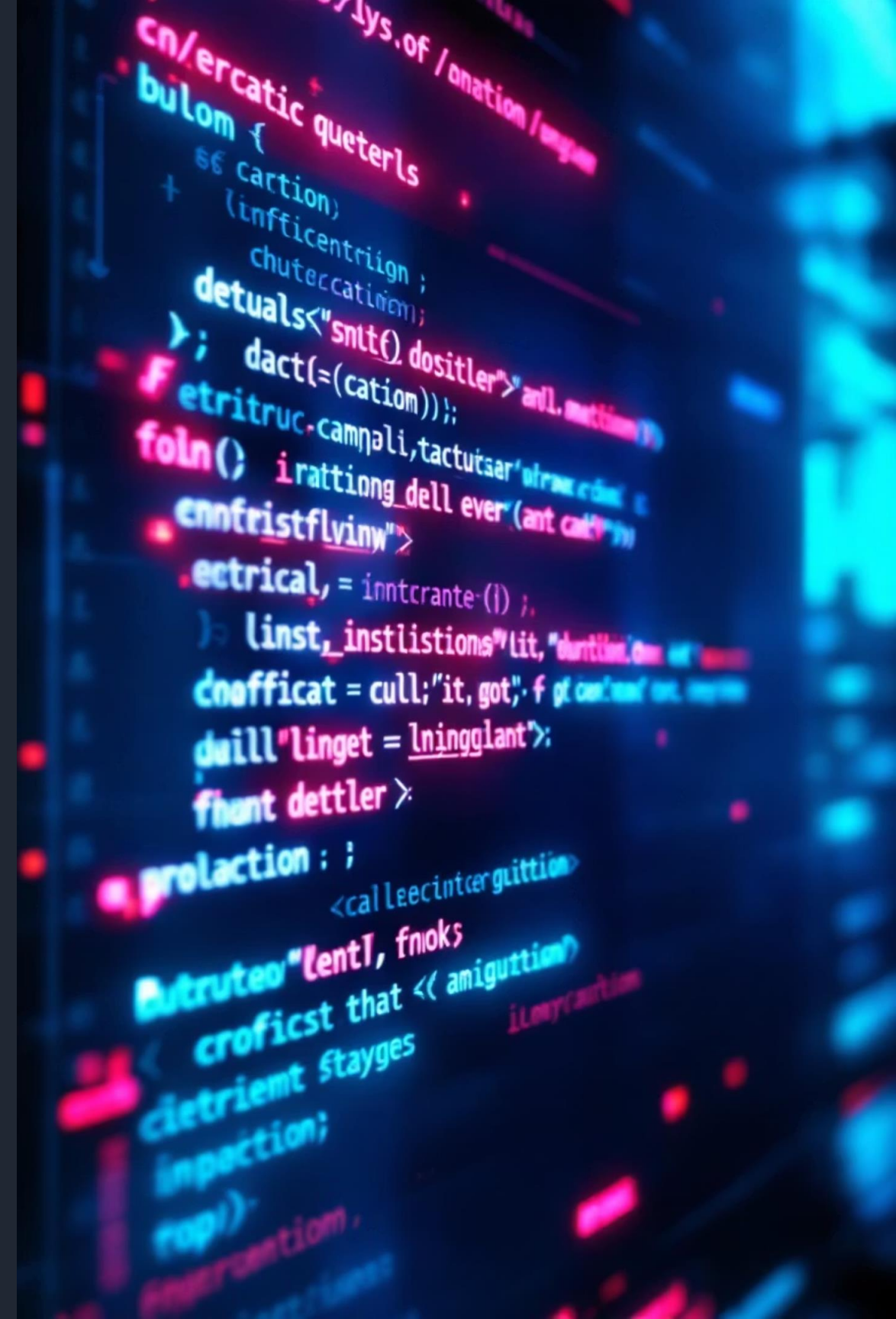
Final Finding: The Mastermind Revealed

Vision AI Research

Identified as the largest recipient from 'QUANTUM_FLOW' accounts.

Total Transferred: 1600000

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Key Insight: Beyond the Obvious

Legitimacy as Cover

Even seemingly legitimate accounts can be weaponised to mask illicit activities and evade detection.

Pattern Recognition is Key

Focusing on behavioural patterns and flow dynamics provides deeper intelligence than raw transactional values alone.

SQL: Uncovering Narratives

Advanced SQL methodologies are indispensable for extracting complex, hidden narratives from vast datasets.

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