PuppyGraph

PuppyGraph Enhances *Fintech Security* with Instant Fraud Alerts

Legend:
- Group
- Person
- Account
- Securities

```
id          Account[1610]
label       Account
AccountNumber  GB18DKRF30377844244040
AccountType    Investment
Balance        73454.09
```

Person[4961]
Account[1610]
Group[692]
Securities[1551]

```
id          Securities[1551]
label       Securities
SecurityType   Bond
SecurityName   Jones Ltd
CurrentPrice   236.68
```

Before PuppyGraph

- ✕ Struggled to build a real-time alerting system to detect fraudulent accounts and pull relevant data for human reviewers.

- ✕ SQL-based systems failed to meet real-time performance requirements.

- ✕ Existing SQL-based solutions were inflexible, with hard-coded query logic, limiting the criteria necessary for effective human reviewers

After PuppyGraph

- ✓ Achieved real time alerting in product by delivering **100-200ms** for quick alerting queries.

- ✓ **Single digit seconds** for extremely complex investigative queries for human investigation.

- ✓ Scaled the system to handle **3-5 TBs** of data, with plans to expand to 100TB by adding more data sources by the end of next year.