

Core Architecture

Fluree collapses the three-tier architecture stack into one data-centric layer that emphasizes data integrity, facilitates secure data sharing, and powers rich data insights.

Shareability

Provide secure and direct data access to third parties—no need for custom “discovery” layers or access logic spread across APIs. Data stakeholders can directly query for the data they need with SPARQL, FlureeQL, or GraphQL.

Time

Time as a first-class citizen: every piece of data is time-stamped and traceable by extending RDF to include temporal metadata. “Time Travel” allows you to issue queries against any moment of time and instantly retrieve the data as of that instance.

Security

Program fine-grained security logic stored and executed at the data layer with SmartFunctions, effectively allowing data to “defend itself” across domains. This data-centric security approach collapses potential attack surfaces and saves time in managing identity/access across the enterprise.

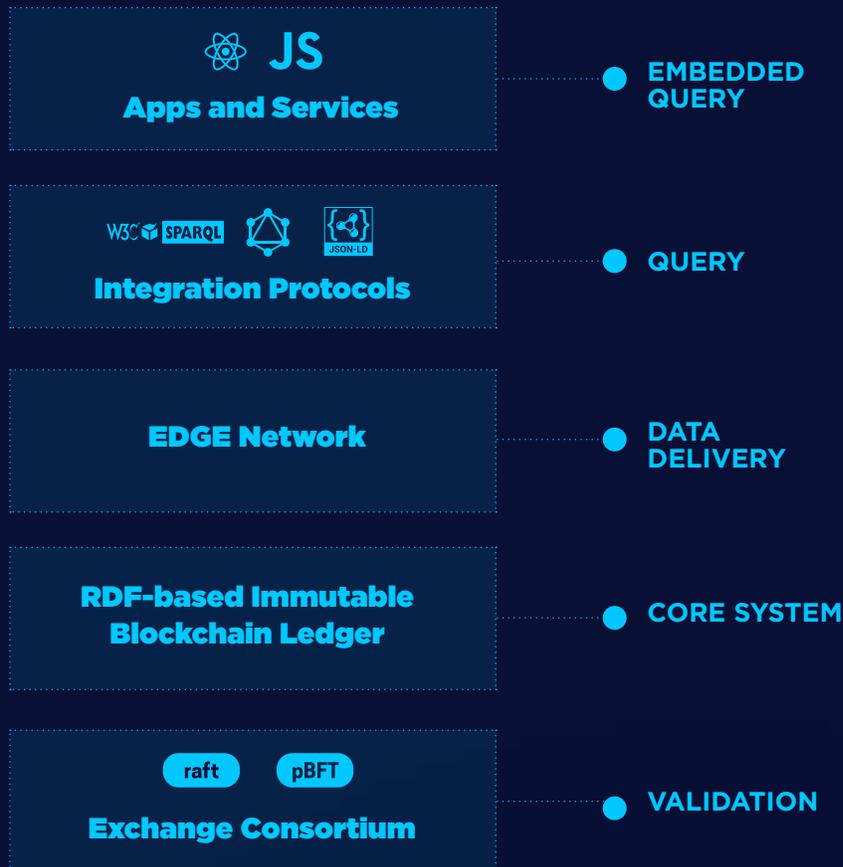
Semantics

Fluree formats every atomic unit of data in W3C-standard RDF (Resource Description Framework) and exposes this information as a rich “semantic” graph database. Fluree instantly makes data F.A.I.R. (Findable, Accessible, Interoperable, and Reusable.)

Trust

Fluree secures data with unbreakable blockchain cryptography for extreme data integrity. Provide mathematical proof into the provenance, history, and legitimacy of every piece of information – forever. Optional decentralization allows democratic control across data-networks governed by industry consortia.

Data Stack



Fluree is a modern, data-driven technology stack. Fluree's modular components can be customized, deployed and scaled to meet very specific application criteria.

The Data Platform For All

Fewer headaches and better outcomes across the entire data value chain. By reducing the need for custom code and API bloat, Fluree harmonizes front and back end development under a single source of data truth.

- ✓ Cloud-native and server-agnostic
- ✓ Familiar languages and flexible schemas
- ✓ Rich, declarative graph insights across all data sources