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PROFESSIONAL SUMMARY

Senior Ontology Specialist with 10+ years of experience in semantic modeling, ontology engineering, and semantic data architecture, specializing in mortgage and financial domains. Expert in OWL/RDF, SPARQL, and practical implementation of knowledge graphs for enterprise-scale applications.

PROFESSIONAL EXPERIENCE

Lead Ontology Specialist MortgageDataTech, Boston, MA | Jan 2020 – Present

- Designed and managed enterprise ontologies for mortgage products, origination, servicing, and compliance, aligned with MISMO standards.
- Led the migration of legacy loan data to a Stardog-based knowledge graph, enabling semantic search and analytics.
- Trained business analysts and engineers on ontology usage, SPARQL querying, and semantic data quality standards.

Ontology Engineer FinSemantics, New York, NY | Sep 2015 – Dec 2019

- Developed and maintained ontologies for loan compliance, mortgage risk, and regulatory reporting across US and EU markets.
- Worked closely with enterprise architects to integrate ontologies with API-driven digital mortgage workflows.
- Implemented automated validation and reasoning scripts, reducing ontology inconsistency incidents by 35%.

Semantic Analyst FirstFederal Bank, Boston, MA | Jul 2012 – Aug 2015

- Supported enterprise data mapping to OWL/RDF for single-family mortgage and commercial lending.
 - Developed data dictionaries, taxonomies, and metadata catalogs for business users.
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EDUCATION

M.S., Information Science — Simmons University **B.S., Computer Science** —
Northeastern University

CERTIFICATIONS

- Certified Semantic Web Professional – W3C
 - MISMO Standards Professional – Mortgage Industry Standards Maintenance Organization (MISMO)
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TRAINING & SKILLS

- TopBraid Composer Advanced User (Training, TopQuadrant)
 - Semantic Technologies Bootcamp (ECCMA)
 - OWL, RDF, SKOS, Protégé, Stardog, Neo4j, SPARQL
 - Mortgage Domain, Data Modeling, Python, Data Governance
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CONTRIBUTIONS

- Contributor to MISMO v3.5 Ontology
- Speaker, Data-Centric Architecture Forum 2022