Shawn F. Murphy

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Profile:

Software architect/developer/CTO with 30+ years experience building relational databases, distributed knowledge systems, semantic datastores, and collaborative platforms, now integrating agentic AI and LLMs into epistemically robust architectures.

- Team leader and trainer with deep experience designing and building large data-driven, scientific, academic, collaborative, e-commerce, visualization and publishing systems. Highly proficient in technical communications as well as diverse programming languages, knowledge representation technologies, frameworks, visualization tools, RDBMSes, ORMs, APIs, standards, methodologies and architectural styles.
- Seeking roles as Staff Engineer, Software Architect, or Research Engineer.

Professional Specialties: Collaborative Cognition, Knowledge Representation & Graphs, Semantic Web, LLM Integration, Agentic Pipelines, WebComponents, Distributed Systems, Version Control, AI, RDBMS, OOP, Functional, Cognitive Computing, Dynamic Graphics, Pattern Languages, DevOps, FOSS, Capability-Based Systems, CI/CD, Test Automation, Docker

Standards: implemented: TMDM, OKBC, RETS, Digest Auth, RBAC, ANSI X12 EDI

Languages: Python, Javascript, Coffeescript, Typescript, `POSTSCRIPT` , SQL, Rust, Bash, Java, C, AWK, ObjC, Scheme, Smalltalk, LISP, Nim, Guile, PAL, REXX, RPG/400, *etc*, *etc*

Runtimes & Tools: Bun, Node.js, Electron, Capacitor, Ollama, Claude Code, Docker, HAProxy, Playwright, Rollup, N3.js, D3.js

Formats: HTML5, CSS, SVG, XML, DocBook, SGML, Markdown, LaTeX, PDF, N3, TriG, OrgMode

Upper Ontologies: RDF*, OWL, OKBC, TMAPI, CycL, WordNet, KQML, DAML – MARC, EDI

Systems: Linux, MacOS, iOS, Android, Squeak, Minix, AS/400, OS/2, NeXTstep, Windows, Apple*II*

Industries: Artificial Intelligence, Molecular Nanotechnology, Bioinformatics, Digital Humanities, B2B & B2C E-Commerce, Database Publishing, Grocery E-Commerce, Supply Chain Automation, Bibliographic Systems, Recruiting Systems, Fleet Automation & Tracking, Abuse Detection, Learning Management, Real Estate, Laboratory Information Management (LIMS)

Experience

2015 to present — Founder & CEO — Nooron Collaboratory Inc/UG
Led 7 staff in e-commerce consulting, product development and AI-alignment R&D

2013 to 2014 — Fullstack Software Engineer — Connectifier
Fullstack engineer at Thiel-funded SoCal tech recruiting startup acquired by LinkedIn

2013 to 2014 — Architect & Programmer — The Orlando Project
Led team building academic dynamic visualization / semantic collaboration system

2011 to 2014 — Founder, CTO, Architect — Semandra, Inc.
Led cognitive, semantic, SalesForce, grocery, fleet mgmt. & e-commerce SaaS builds

2002 to 2011 — Principal — smurp.com
Led cognitive, real estate, knowledge graph, collaboration & publishing builds

1995 to 2003 — Founder, Chair, VP R&D — Emergence by Design
Led 15 staff building e-commerce, academic, real estate, recruiting, legal & other SaaS

1990 to 1995 — Principal — Sapient Systems
Built *FastEDI* (B2B e-commerce); edu assessment tool; Real Estate management

1990 to 1992 — Founder & Director — TechnoWatch Society
Led existential risk research & think-tank addressing AI, Biotech & Nanotech hazards

1990 to 1992 — Cofounder & Board — EcoCity Society
Cofounded and codirected non-profit driving eco-design, education, and urban reforms

1989 to 1995 — Systems Analyst I, II & III — Gov't of Alberta
Led 4 staff building biomedical LIMS, inventory & ordering; taught RDBMS skills

Education

International Baccalaureate @ Lester B. Pearson College; CompSci, Phil, Phys, Math(Hon) 2yrs @ University of Alberta; Digital Electronics Tech @ SIAST; Bootcamp @ NeXT