

Christopher Bisignani

KNOWLEDGE REPRESENTATION · FORMAL ONTOLOGY

STAFF ENGINEER · TECHNICAL LEADER

christopher@braidingfutures.com · San Francisco Bay Area · [LinkedIn](#) · [GitHub](#)

00 SUMMARY

CTO, Staff-level engineer, and technical lead specializing in knowledge representation and formal ontology. Two decades turning messy human knowledge into systems that scale — including nine years on Google's Knowledge Graph Team.

◆ Available for consulting and contract engagements.

01 EXPERIENCE

Founder, CEO & CTO — Braiding Futures, Inc.

2026 — PRESENT

◆ Founded a public-benefit software studio that helps domain experts turn deep expertise into subscription software, built on a shared, ontology-driven platform — keeping human experts on the critical path through the AI era.

Co-Founder & CTO — Lattice Labs, Inc.

APR 2025 — MAY 2026

◆ Co-founded an AI research lab focused on the future of human-AI interaction; first product, Lattice, a next-generation AI coding tool.

Staff Software Engineer (L6) — Google · Knowledge Graph

NOV 2016 — OCT 2025

Built the human-facing systems that let thousands of people curate, debug, and operate a knowledge graph of over 1.6 trillion facts.

- ◆ Promoted from L4 to Staff Engineer (L6) over nine years — two level advancements.
- ◆ Built and scaled a knowledge-editing platform used by ~4,000 contributors to add, remove, merge, and split entities in the Knowledge Graph.
- ◆ Conceived and built a cross-system debugging interface spanning ~20 backend systems and over 1.6 trillion facts, eliminating ~10,000 engineer-hours of debugging per year.
- ◆ Conceived and built an observability interface monitoring thousands of batch jobs and tens of thousands of real-time pipelines — the full lifecycle from ingestion through publication and downstream serving.
- ◆ Technical Lead for teams of up to 12 engineers across Mountain View, San Francisco, and São Paulo; hired and onboarded ~6 engineers to stand up the São Paulo team.
- ◆ Primary liaison to infrastructure and client teams across the U.S., Europe, and China.

01 EXPERIENCE CONTINUED

Software Engineer — Brigade Media

JAN 2015 — APR 2016

- ◆ Built and iterated on multiple versions of a consumer social network organized around political identity and connection; full-stack contributor.

Software Engineer — Addepar

JAN 2013 — DEC 2014

- ◆ Led a ~5-engineer team building the interactive user interfaces for Addepar's wealth-reporting platform.
- ◆ Co-inventor on two U.S. patents (see Patents) for dynamically generating reports and tables by traversing graph-structured financial data — putting complex reporting in the hands of non-technical users.

02 EARLIER EXPERIENCE

Software Engineer — Threadflip 2012

Full-stack development for a fashion-resale marketplace; built search, filtering, and a recommendation algorithm for surfacing items to shoppers.

Software Engineer — Crowdcast 2009–2011

Built two versions of the product from scratch; patent-pending contribution to a game-theoretic mechanism. (Rails, JavaScript, GSL.)

Co-Founder, Engineer & Designer — Jingling Gate

2008–2009

Co-founded a fitness startup; built the entire back end and a functional front end. (Rails, JavaScript.)

Software Engineer, R&D — SECOM, Japan 2007–2008

Built building-information models on the IFC architectural-metadata standard; authored plug-ins for Google SketchUp. (C#, Ruby, C.)

03 PATENTS

US 9,424,333 Systems and user interfaces for dynamic, interactive report generation and editing via automatic traversal of complex data structures. (Addepar, 2016)

US 10,565,298 Interactive table generation and editing via automatic traversal of complex data structures in a distributed system architecture. (Addepar)

04 TECHNICAL SKILLS

KNOWLEDGE & DATA

Knowledge representation, formal ontology, knowledge graphs, semantic & structured data, data modeling, metadata standards (e.g. IFC), graph data structures.

ENGINEERING

Full-stack web development, large-scale distributed systems, developer tooling & observability, batch and real-time data pipelines, UI/UX engineering, search and ranking.

LEADERSHIP

Technical leadership, distributed and global teams, hiring and team-building, cross-functional and cross-organizational collaboration.

LANGUAGES & TOOLS

Ruby/Rails, JavaScript, C#, C, HTML/CSS.

EDUCATION

Massachusetts Institute of Technology

B.S. (S.B.) in Mathematics with Computer Science.
2003–2007

LANGUAGES

English (native) · Japanese (conversational; ~ JLPT N5 reading) · Russian (A2) · French (A2; four years of study).

COMMUNITY

Founded and grew an internal employee community to ~800 members; recognized with multiple performance awards.

INTERESTS

Tending ~100 acres in Castro Valley, CA — clearing invasives, planting natives, restoring a wild ecosystem. Go & chess; flute & guitar.