

Chris Cordaro

AI / ML Engineer · Technical Lead · Program Manager

Raleigh, NC | 828-750-4159 | chriscordaro@gmail.com | chriscordaro.com | linkedin.com/in/chriscordaro

Active SECRET Security Clearance

PROFESSIONAL SUMMARY

AI / ML engineer and technical lead with 12+ years turning messy data and ill-defined problems into production software. Sole architect of Scout, a production RAG and multi-agent SaaS (Python, FastAPI, PostgreSQL + pgvector, Docker, Cloudflare) serving 20+ users over 50,000+ federal solicitations. Led the build of an applied-ML workforce platform (LSTM, XGBoost, genetic algorithms, BERT) at the DoD Inspector General that improved forecasting accuracy 30% and cut manual analysis 60%. Directed a 15-person data team through a modern-data-stack migration and a self-service platform for 400+ users. Ships with tests, CI, containers, and observability. Active SECRET clearance.

PROFESSIONAL EXPERIENCE

Senior Associate — AI Engineering Lead & Program Manager Knowesis Inc.

Oct 2025 – Present
Raleigh, NC

- Built Scout, a full-stack federal solicitation-monitoring SaaS, from schema to ship — Python/FastAPI, PostgreSQL + pgvector, Docker, Cloudflare Zero Trust — with AI composite scoring, four-tier source deduplication, and multi-source aggregation; in production for 20+ users over 50,000+ active solicitations.
- Shipped a RAG copilot with intent classification, hybrid retrieval (full-text + vector), and streaming LLM synthesis — cutting research from ~2 hours to under 2 minutes.
- Architected a four-phase multi-agent competitive-intelligence pipeline with role-specialized agents and live SSE progress across SAM.gov, USASpending, FPDS, and SBA — 15-page reports in ~6 minutes vs. 8+ hours manually.
- Designed 14 autonomous agent personas with persistent memory and cross-agent coordination; shipped 30+ cross-platform agent products (MCP servers, skills, plugins) with 150+ installs across three CLIs.
- Replaced a manual monthly burn-reporting process with a Python pipeline producing 15 status reports, variance workbooks, and AI-assisted run-out projections from one input — saving ~20 hours/month.
- Leads a 16-person team on the Health Readiness Policy & Oversight contract across the Military Health System, including an AI-augmented evaluation framework for pharmaceutical supply-chain analysis.
- Leads capture planning and proposal development for DoD and civilian pursuits.

Enterprise Business Innovation Manager DoD, Office of Inspector General

Aug 2024 – Sep 2025
Alexandria, VA

- Led the build of an enterprise workforce-allocation platform: LSTM networks for demand forecasting, XGBoost for attrition risk scoring, genetic algorithms for constrained allocation, and BERT-based NLP for position and skill classification (Python, TensorFlow, scikit-learn).
- Improved forecasting accuracy 30%, cut manual analysis time 60%, and cut time-to-hire 10%; surfaced model output in self-service dashboards so program offices could answer their own questions.
- Delivered across 24 two-week sprints against a 300+ story backlog, with Requirements Traceability Matrices linking every deliverable to a mission outcome.
- Led the agency-wide, data-driven transformation and the change management that moved teams from manual reporting to self-service analytics, with senior-leadership sponsorship secured and sustained.

Technical Lead & Program Manager, Data Platform Knowesis Inc. — DoD Inspector General

Sep 2019 – Aug 2024
Alexandria, VA

- Drove a modern-data-stack migration over 40+ sprints (35% cost and scalability gain) and built a self-service analytics platform for 400+ users.
- Designed and delivered UkraineOversight.gov — public interactive Tableau dashboards cited by CNN, C-SPAN, and Congress.

- Directed a 15-person team of data scientists, engineers, and BI analysts; 98% on-time delivery; Glenn/Roth Award for Exemplary Service. Founded a Data Science Center of Excellence for methodology, governance, and mentorship.

Solution Architect

Knowesis Inc. — FEMA / Defense Health Agency

Feb 2018 – Aug 2019
Washington, DC

- Delivered a cross-platform disaster-recovery system (iOS, Android, web) on AWS with Power BI, GIS, and REST APIs — primary technical contact under 4-hour SLAs.
- Built an enterprise records-management system with automated classification, NLP, and BI dashboards — cutting manual workload 45% with 94% on-time delivery.

Data Manager

Atkins (SNC-Lavalin) — FEMA

Sep 2013 – Feb 2018
Columbia, SC

- Built enterprise data solutions supporting FEMA funding coordination across \$300M+ and 22 counties; achieved a 0.05% error rate.

EDUCATION

B.S., Management Information Systems — Business Intelligence & Analytics

2015

The University of North Carolina at Charlotte

TECHNICAL SKILLS

Machine Learning:	TensorFlow, scikit-learn, XGBoost, LSTM, BERT, genetic algorithms, NLP, forecasting, evaluation and validation, ML lifecycle
AI & GenAI:	RAG (hybrid retrieval, embeddings, pgvector), multi-agent orchestration, agentic workflows, MCP, Claude API, Gemini API, LangChain/LangGraph, persistent memory
Languages & Frameworks:	Python, TypeScript, JavaScript, SQL, FastAPI, React, Next.js, Node.js, R
DevOps & Testing:	Git, GitHub Actions, pytest, Vitest, Ruff, mypy, Semgrep, Docker, CI/CD
Databases:	PostgreSQL, pgvector, SQLAlchemy, Drizzle ORM, Alembic, SQL Server, Oracle EBS
Cloud & Infrastructure:	Docker, Kubernetes, Cloudflare (Tunnel, Zero Trust, Workers, R2), AWS, Azure, GCP, Vercel
BI & Analytics:	Tableau (Cloud + Desktop), Power BI, Spark / Databricks
Federal Domain:	FAR/DFARS, FedRAMP, CMMC, Zero Trust, OTA acquisition, SAM.gov, Shipley methodology

CERTIFICATIONS

PMI Agile Certified Practitioner (PMI-ACP), 2022 · Tableau Certified Associate, 2019 · Data Science Professional Certificate, HarvardX, 2021 · DataWalk Technical Professional, 2022