

Cory Davis

Senior Lead AI Developer | GenAI & RAG Architect

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PROFILE

Senior Lead AI Developer with 9+ years of experience delivering production-grade AI systems and full stack Python applications. Expert in designing and deploying **GenAI solutions using Retrieval-Augmented Generation (RAG)**, building **document ingestion pipelines with vector databases (MongoDB Atlas)**, and implementing **Agentic AI and MCP-based workflows**. Proven leader in driving projects end-to-end, collaborating with cross-functional teams, and deploying scalable AI solutions on **Azure and GCP**.

SKILLS

GenAI & Agentic Systems: RAG Architectures, LangChain, LangGraph, Agentic AI, MCPTool Calling, Function Calling, Structured Outputs

Document Processing & Vector Search: MongoDB Atlas Vector Search, Pinecone, FAISSEmbeddings, Chunking, Metadata Filtering

Backend & Full Stack: Python (FastAPI, Flask), REST APIs React (for AI dashboards), Background Workers

AI/ML & Analytics: Prediction & Forecasting Models Model Evaluation, Prompt Engineering, Hallucination Mitigation

Cloud & Deployment: Azure (App Services, Functions), GCP (GKE, Cloud Run) Docker, Kubernetes, CI/CD

Observability & Reliability: LangSmith, Custom Logging, Tracing, Cost Optimization

Leadership & Delivery: Technical Leadership, Task Ownership, Architecture Design Stakeholder Communication, Documentation

Tools: Git, GitHub, GitLab, Jira, Agile, Scrum, CI/CD

PROFESSIONAL EXPERIENCE

C3 AI, Senior Full Stack Engineer Team Leader

01/2024 – 11/2025 | Redwood City, CA

- Led design and development of **full stack Python applications** for enterprise AI platforms (React + FastAPI + APIs).
- Designed and deployed **GenAI applications using RAG** in production, supporting document search, summarization, and Q&A workflows.
- Built and optimized **document ingestion pipelines** using **MongoDB Atlas Vector Search**, handling PDFs, DOCX, and structured data.
- Integrated **Agentic AI and MCP-based workflows** for multi-step reasoning and tool orchestration.
- Developed AI/ML models for **analytics, prediction, and forecasting** used in business decision systems.
- Deployed and maintained AI services on **Azure and GCP**, ensuring scalability and reliability.
- Managed development tasks, coordinated with product, ML, and DevOps teams, and delivered features with minimal supervision.
- Implemented observability, automated testing, and cost controls, reducing inference spend by 30%.
- Communicated technical progress to both technical and non-technical stakeholders.

Data Robot, *Machine Learning Engineer Team Leader*

02/2021 – 12/2023 | Boston, MA

- Built production-grade **LLM-powered services** for enterprise customers using **Python and RAG pipelines**.
- Designed **vector-based document retrieval systems** using **MongoDB Atlas and FAISS**.
- Implemented **document processing workflows** for ingestion, enrichment, and indexing of large datasets.
- Developed **forecasting and predictive models** for business analytics use cases.
- Deployed services on **Azure and GCP** with CI/CD pipelines and containerized workloads.
- Collaborated with internal and external teams to deliver AI solutions end-to-end.

TechFusion Inc., *Middle-level Full Stack Engineer*

08/2018 – 12/2020 | San Francisco, CA

- Developed backend services for AI-enabled platforms using **Python and REST APIs**.
- Built early **document intelligence pipelines** for classification and extraction.
- Supported deployment of data analytics and prediction models into production systems.
- Improved system reliability and performance through logging, monitoring, and automated testing.
- Worked closely with QA and DevOps teams to ensure stable releases.

Verint Systems, *Junior software Developer*

06/2016 – 06/2018 | Melville NY

- Developed NLP-based automation tools and document processing services.
- Built backend APIs for analytics and reporting workflows.
- Assisted with debugging, performance optimization, and production support.
- Gained strong foundation in **full stack development and system integration**.

EDUCATION

Bachelor in Computer Science & Mathematics,
Florida Institute of Technology

2012 – 2016 | Melbourne, Florida