Jeremy Johnson

Principal AI Engineering Tech Lead | Agentic Systems | Enterprise AI Platforms | AI Developer Tooling | Applied ML

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Summary

Principal-level AI engineering leader with a long track record of building production software systems, leading engineering organizations, and turning advanced technical capabilities into working products. Deep experience across AI platforms, agentic systems, developer tooling, enterprise software, consulting, software quality, GIS, and distributed systems.

At DataRobot, recent work has focused on enterprise AI platform capabilities including Enterprise MCP architecture, proxy/search/execute workflows, secure sandboxed code execution, human-in-the-loop controls, OAuth2-enabled tool flows, skills/tool ecosystems, agent templates, and enterprise-ready OpenClaw / DR-Claw enablement. Earlier work spans Real Python, Harvard Medical School, Softworks Consultancy, Saudi Aramco, and Telvent Miner and Miner.

Selected Proof

- Designed DataRobot's Global MCP gateway around a small semantic search/execute surface for a roughly 4MB OpenAPI REST surface.
- Shipped secure sandboxed code execution through per-call Kubernetes Jobs with Envoy + OPA egress controls, strict security context, small base images, and sub-200ms cold-start targets; centerpiece PR was roughly 28,000 lines across 214 files.
- Helped take the Global MCP gateway live in production in April 2026, with agent skills reaching the Cursor marketplace and Claude marketplace submission immediately after.
- Led Lean Testing work that reduced a 458-hour-per-day functional/E2E testing burden by 85%, reduced test infrastructure cost by 65%, and deleted roughly 150,000 lines of E2E tests after coverage had been rebuilt at lower layers.
- Led Root Insights framework work, consolidating one-off insight implementations into a reusable contract while preserving customer-facing behavior.
- Led storage cost reduction efforts across logs and older modeling artifacts, owned release readiness and on-call/SLA process design, and served as Incident Commander.

Core Strengths

Enterprise MCP: HITL, proxying, OAuth2, distributed tools | Securely sandboxed long-running agent systems | Agent systems and agent-led SDLC | Enterprise AI platforms and AI productization | Python, JavaScript, Kubernetes | AI model explainability and trust workflows | DeepEval and agent evaluation systems | Developer tooling and technical enablement

Experience

DataRobot - Principal AI Engineering Tech Lead | July 2025 - Present

- Leading cross-organizational initiatives shaping DataRobot's next-generation enterprise AI platform capabilities.
- Driving DR Global MCP, including search and execute / sandbox modes for tool-enabled AI workflows over a roughly 4MB OpenAPI platform surface.
- Designed the gateway around a small semantic search/execute interface and Code Mode-style SDK access to keep agent context budgets useful while preserving broad enterprise platform reach.
- Implementing an enterprise-ready OpenClaw / DR-Claw offering enabling DataRobot to host and sell long-running agent systems to enterprise customers.

DataRobot - Senior Domain Lead, Trust and Explainability | July 2021 - July 2025

- Led a strategically important domain focused on trust, explainability, and customer-facing AI platform capabilities.
- Led Root Insights framework work that consolidated multiple insight implementations into a reusable architecture for metrics, validators, formatters, and job management.
- Led Lean Testing improvements that cut test execution time by 85%, reduced test infrastructure cost by 65%, and removed roughly 150,000 lines of high-cost E2E tests after rebuilding coverage at contract and unit layers.

DataRobot - Senior Software Engineer, Core Modeling | July 2018 - July 2021

Built product and platform capabilities in the core modeling organization, including API sharing and permissions services and Visual AI / image ML platform work.

Real Python - Founder / Partner / Author | August 2013 - March 2017

Founder in the original Real Python book project. Authored Advanced Web Development with Django, ran the Kickstarter campaign, wrote and edited technical articles, and provided mentorship and training to readers.

Harvard Medical School - Senior Software Development Lead | March 2016 - July 2018

Led software development efforts for the 4D Nucleome Data Coordination Center in Peter J. Park's DBMI lab, building systems for metadata management, genomics and microscopy data analysis, QA, search/API surfaces, and visualization workflows.

Softworks Consultancy - Founder / Managing Director | 2003 - 2016

- Built and ran a bespoke software development, performance testing, and automated testing consultancy in Malaysia, growing it to a team of 15 world-class consultants and delivering for AirAsia, Maybank, Bank Negara, Shell, BMW, AEON, and GE Finance.
- Led the full consulting lifecycle across technical discovery, architecture, delivery planning, hiring, client communication, quality control, and enterprise delivery practices.

Earlier Engineering Experience

Saudi Aramco - Software Development Lead | 2002 - 2004

Developed customized GIS-based solutions and distributed climate-monitoring systems across C# .NET, Java, ArcIMS, and ESRI ArcObjects.

Telvent Miner and Miner - Software Developer | 2000 - 2002

Built GIS solutions for utilities using ESRI ArcObjects, C++, C# .NET, and Visual Basic, developing customer-facing enterprise software experience before moving into consulting and company-building.

Education, Certifications, Publications

Colorado State University, B.S. Computer Science | Professional Scrum Master | Publications include The 4D Nucleome Data Portal, Tibanna, and Real Python: Advanced Web Development with Django.