

LAWRENCE McDANIEL

Data Scientist & Full-Stack Engineer — Python/Django · React · Terraform/AWS — Seeking Hands-on Senior Remote Contract

San Francisco, CA · lpm0073@gmail.com · [linkedin.com/in/lawrencemcdaniel](https://www.linkedin.com/in/lawrencemcdaniel) · github.com/smarter-sh · smarter.sh · lawrencemcdaniel.com

30-year software engineer and data scientist — Goldman Sachs, Morgan Stanley, and Deutsche Bank alumnus turned open-source AI builder. Designer and lead engineer of a 250,000-line, Kubernetes-inspired generative-AI platform (Django · Pydantic · React · Terraform); former CTO of a VC-funded AI startup; current AI/ML instructor at the University of British Columbia. Seeking senior remote contract engagements in full-stack development, data science, and AI/ML systems.

CORE SKILLS

Engineering: Python · Django / DRF · Pydantic · ReactJS · Terraform · AWS · Docker / Kubernetes · PostgreSQL / MySQL / SQL · CI-CD

AI / Data: Generative AI · LLM Tool-Calling & RAG · Machine Learning · Data Science · Quantitative & Financial Analytics

Also: Technical Training & Curriculum Design · Team & Project Leadership · Video Production · Financial Statement Analysis

EXPERIENCE

Principal Architect — The Smarter Project (smarter.sh) Mar 2023 – Present | Remote

- Architected an open-source, no-code generative-AI platform (250K+ LOC) where resources are declared via YAML manifests, Kubernetes-style — supporting LLM tool-calling, RAG, database integrations, and locally-hosted models. [17 GitHub repos](#), [37k Dockerhub pulls](#), 3 dozen forks, 20+ contributors, 80 issues, 1,000+ registered users.
- Designed the Pydantic manifest specification and the ReactJS integration layer; built fully automated CI/CD with semantic versioning, >70% test coverage, and one-click Terraform install on Kubernetes.
- Used as a live teaching platform in AI/ML courses at the University of British Columbia. Currently under evaluation at State of New Mexico education board.

AI, ML & Cloud Computing Instructor — University of British Columbia — Extended Learning Oct 2022 – Present | Vancouver, BC · Remote

- Teach AI, machine learning, data science, and cloud infrastructure, including the UBCx summer Data Science program.
- Designed an AI-focused worker-retraining curriculum for 400 IT employees; produced all video coursework in an in-house studio (7 complete courses to date).

Chief Technology Officer — Querium Corporation Jun 2017 – Dec 2025 | Austin, TX · Remote

- Led six-person engineering team for a VC-funded AI-tutoring startup (\$20M valuation) building adaptive math-learning products.
- Built and operated Stepwise Math integrations for several dozen university customers, an AI-based math tutor for Algebra through Precalculus, on Terraform-provisioned AWS infrastructure.

Contract Developer & DevOps Engineer — Open edX Project Jun 2016 – Dec 2023 | Remote

- In-house Open edX expert (MIT/Harvard-founded LMS); consulted on installations, customizations, and administration of large-scale implementations serving 100,000+ active users. Five dozen clients: <https://lawrencemcdaniel.com/clients>

Earlier Career — Enterprise Data, Analytics & Finance Technology Consulting (1992–2007)

Data Scientist, Ascend Capital (\$100M+ quantitative long-short hedge fund, San Francisco) · VP of Data Warehousing & Analytics, Wilshire Financial Services Group / IBM Seterus (built a \$4B+ mortgage pricing & BI platform, 10-person team; interim CIO through NASDAQ IPO) · Technology & Fundraising Advisor, Grupo Chedraui (Mexico fintech Series-A raises) · Technology Advisor, Morgan Stanley Real Estate Funds (Tokyo/Seoul/Bangkok distressed-asset systems) · Deutsche Bank (Mexico City, \$5B asset-disposition platform) · Fortress Investment Group (Rome, custom mortgage loan management system) Project lead, Archon Group — worldwide asset-management database for Goldman Sachs' Whitehall Funds (12,000+ users).

EDUCATION

MIT Online — Certificate, Data Science & Machine Learning: Making Data-Driven Decisions (2022)

Wharton Online — Certificate, Business Analytics (2017)

Stanford Online — Certificate, Machine Learning (2016)

B.S., Computer Science & Mathematics — University of North Texas (1992)

Certifications — Kubernetes, ReactJS. More: <https://www.linkedin.com/in/lawrencemcdaniel/details/certifications/>

Other non-accredited coursework — <https://lawrencemcdaniel.com/education> and <https://lawrencemcdaniel.com/data-science>

PORTFOLIO

Code: github.com/smarter-sh/smarter · github.com/fullStackWithLawrence · **Technical Writing:** blog.smarter.sh · blog.lawrencemcdaniel.com ·

Technical Documentation: <https://docs.smarter.sh/> · **Instructional Video:** youtube.com/@FullStackWithLawrence ·

Photography: <https://photography.lawrencemcdaniel.com>