

HELENA RISTOV

AI Engineering Executive &
Managing Delivery Architect

CONTACT

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PORTFOLIO

FEATURED WORK

[helenaristov.netlify.app](#)

Live demos, technical write-ups,
and selected AI engineering
projects.

SOCIAL & WRITING

→ [LinkedIn Profile](#)

→ [Substack Articles](#)

→ [GitHub Repositories](#)

TECHNICAL STACK

AI & ML PLATFORMS

Azure OpenAI, Azure AI Foundry,
AWS Bedrock, GCP Vertex AI,
SageMaker

LLMS & MODELS

OpenAI, Claude, Mistral, Llama

ML & QUANT METHODS

TensorFlow, PyTorch, Scikit-Learn,
XGBoost, LSTM, Kalman Filters,
GARCH, PCA, ARIMA, Statistical
Arbitrage

CLOUD & DISTRIBUTED

AWS (EC2 GPU, Lambda, ECS, S3,
Kinesis, SQS) · Azure (Functions,
IoT Hub) · GCP (Cloud Run,
BigQuery) · Linux

MLOPS & INFRASTRUCTURE

Docker, Kubernetes, Kubeflow,
Terraform, Bicep, Jenkins, MLflow,
Databricks

DATA & BACKEND

Python, SQL, R, REST APIs,
PostgreSQL (pgvector), Spark

EXECUTIVE PROFILE

Results-driven AI Engineering Executive with 12+ years building and scaling enterprise AI platforms, GenAI systems, and production-grade machine learning in regulated environments. Unique combination of deep technical fluency and executive delivery leadership — from founding a profitable quantitative trading firm to directing \$10M+ AI transformation programs for Fortune 20 clients. Proven record of architecting multi-cloud LLM ecosystems, standing up AI governance frameworks, and leading high-performing engineering organizations from concept through production.

PROFESSIONAL EXPERIENCE

Protiviti

2025

Senior Manager, AI & Innovation — AI Studio

- ▶ Founded and launched Protiviti's AI Studio — a presales innovation engine defining enterprise AI intake, governance, and delivery frameworks, directly generating incremental revenue alongside Managing Directors.
- ▶ Delivered production AI solutions including a GenAI-driven data migrator (SQL → PySpark), KYC identity workflows, and legal document intelligence tools — compressing delivery timelines and reducing manual engineering effort.
- ▶ Designed an enterprise AI governance framework aligned to regulatory and risk requirements, embedding evaluation pipelines, real-time monitoring, and human-in-the-loop controls.
- ▶ Architected multi-cloud LLM systems across Azure, AWS, and GCP, including RAG pipelines and modular agent-based architectures — establishing reusable accelerators that scaled across client engagements.
- ▶ Built CI/CD-enabled prototype environments to accelerate experimentation, drove partner integrations (Microsoft, Salesforce), and led the transition from MVP to production-ready delivery.

Capgemini

2018 – 2024

Director of AI & Engineering — Managing Delivery Architect

- ▶ Directed enterprise AI, data, and cloud transformations for Fortune 20 clients (McDonald's, Toyota), leading 20+ engineers and delivering mission-critical production systems across SAP, Azure, and IoT ecosystems.
- ▶ Established architecture standards for Capgemini's GenAI Solutions CoE and built a reusable agent framework that accelerated enterprise AI adoption across client portfolios.
- ▶ Built a production MLOps platform on GCP enabling model drift detection, automated retraining, and real-time monitoring — operationalizing ML at enterprise scale.
- ▶ Designed executive and operational analytics dashboards providing real-time visibility into model performance, infrastructure health, and service delivery quality.

EDUCATION

MA, Mathematics

The University of Texas at Austin

BS, Mathematics

University of Illinois Chicago

- ▶ Architected event-driven IoT systems for connected vehicle telemetry, enabling real-time data ingestion, predictive analytics, and operational insights at scale.
- ▶ Owned multi-cloud infrastructure strategy across AWS, Azure, and GCP, standardizing containerization, infrastructure-as-code, and CI/CD pipelines across a 20+ engineer organization.

Muxing Analytics

2013 – 2018

Founder & Chief Executive Officer

- ▶ Founded and scaled a quantitative trading and analytics firm focused on futures and commodities markets, achieving profitability within year one and scaling to ~\$10M annual revenue through ML-driven trading strategies.
- ▶ Built low-latency trading systems collocated at ICE and CME using FIX-based execution and real-time analytics pipelines, competing directly with institutional market participants.
- ▶ Developed GPU-accelerated ML pipelines to process high-frequency tick data, drive volatility modeling, and automate risk controls across rates, energy, metals, and agriculture.
- ▶ Architected an end-to-end trading platform on AWS integrating real-time data ingestion, execution, monitoring, and compliance-grade controls — fully owner-operated.
- ▶ Authored proprietary trading and data-engineering frameworks, establishing durable IP across strategy development and execution infrastructure.

SAMPLE AI & ML PROJECTS

GenAI Market Intelligence Dashboard · [Live Demo](#) · [GitHub](#)

AI-powered market intelligence platform transforming daily market data into narrative insights — providing an independent analytical view of key macro and sector drivers.

AI Data Migration Platform

LLM-driven workflows automating schema mapping and SQL-to-PySpark translation — measurably improving migration efficiency and reducing manual engineering overhead.

Demand Forecasting — Fortune 20 Retail

ARIMA and Prophet-based forecasting models predicting regional demand patterns to support large-scale operational and supply chain planning.

Financial Signal Modeling & Weather Data Quality Prediction · [GitHub](#)

Ensemble ML methods (Random Forest, regression) applied to large-scale geospatial data quality restoration.