

Abraham Robison

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PROFESSIONAL SUMMARY

AI/data leader with deep finance roots who turns ambiguous business problems into practical, production AI systems - agentic workflows, RAG, forecasting, and decision tooling with measurable impact (~1,500 and ~1,000 FTE hours/year saved, ~\$50M/year saved, ~35 bps/year outperformance on a \$100B+ AUM portfolio). 10+ years across Google Treasury, Russell Investments, and BlackRock; now an Applied AI Scientist at FEV Analytics shipping judge-gated agentic build pipelines and full-stack AI tooling, alongside a public portfolio of production-grade applied-AI systems.

CORE COMPETENCIES

Applied AI & Agentic Systems

Corporate Finance Transformation

Forecasting & Treasury Analytics

LLM Evaluation & Governance

RAG & Document Intelligence

Portfolio Construction & Asset Allocation

Model Risk Governance

Full-Stack AI Engineering

WORK EXPERIENCE

FEV Analytics Apr 2026 - Present

Applied AI Scientist (Contract)

Remote

- Building AI and data tooling on a private-asset valuation platform, most of it delivered end-to-end through an autonomous, judge-gated Claude Code build pipeline (plan to build to review to ship); open-source versions of the pipeline's tools are public at github.com/aberson/claude-skills.
- Built the Roll-Forward Monitor end-to-end - a model-output viewer, report generator, and calculation store - wiring model output through S3 to parquet to SQLite to a React front end with waterfall/bar-chart visualizations and a natural-language query interface over the data.
- Ported a personal autonomous code-generation factory (Planner to Coder to Critic loop) into the platform for an Excel to production-tooling workflow; built a graphical entity-resolution mapping interface.

Google (Treasury) 2022 - 2025

Senior Quantitative Analyst

- Designed an end-to-end agentic workflow for a bank-fee use case - ~1,500 FTE hours/year saved; designed and shipped an AI documentation-generation system (GCP/Python) converting training videos into workflow documentation - ~1,000 FTE hours/year saved.
- Designed and implemented bulk FX-contract reading and analysis - ~\$50M/year saved; co-created an AutoML cash-forecasting pipeline for 2,000+ accounts, raising interest income on a \$20B+ operating cash portfolio.
- Built an internal RAG document-retrieval assistant grounded in real process documents so contractors could self-serve answers - with hard-negative mining to fix retrieval errors and a governance loop re-benchmarking answer quality on any model or prompt change.
- Ran LLM model evaluation for quant treasury - curated scored evaluation sets in a Python scoring loop to compare models on treasury tasks; built macroeconomic forecasting models with gradient-boosted trees (XGBoost, CatBoost); co-created an AI/ML/Automation working group that enabled 2-5 projects/year to receive funding and engineering development.

Russell Investments 2011 - 2022

Senior Quantitative Research Analyst

- Built macroeconomic ML forecasting models - ~35 bps/year outperformance on a \$100B+ AUM portfolio; created global asset allocations for 3 years on the Strategic Asset Allocation Team (~\$250B AUM); built a Black-Litterman-style forecasting framework that helped guide short-term asset allocation across the firm.
- Co-founded the Investment Model Risk Board - evaluated and documented 100+ investment models and established a review process for new models, improving modeling standards and reducing risk.

- Client-facing for ~7 years on the investment strategy team, communicating the firm's market and economic views and asset-allocation strategy directly to clients; managed a three-person team building model infrastructure and SQL databases.
- Built and maintained extended Kalman filter models for a tactical long/short equity and fixed-income product; co-led an intern mentoring program (100 interns/year) and ran a recurring finance book club for interns over 3 years.

BlackRock

2010 - 2011

Risk & Quantitative Analysis Consultant

- Designed a risk-reports database with the Fund of Hedge Funds Risk team and backfilled existing data; built a Python forecasting model used by the fixed-income team.

SELECTED PROJECTS

toybox - Local-First Home AI

Open Source | In Daily Use

Fully-offline home AI for young children: passive listening (VAD + Whisper STT) to NLP intent detection to a 1,300+ branching activity engine to parent-approval UI to child PWA with generated sprites and TTS. Production applied-AI at scale across speech, vision, and LLM orchestration; in real daily family use. Public: github.com/aberson/toybox.

Python/FastAPI, React/TypeScript, Whisper, ONNX, Stable Diffusion, Coqui XTTS-v2

Alpha4Gate - Self-Improving StarCraft II Bot

Open Source

A platform where an AI improves itself: a Claude-advised loop reads its own game telemetry and auto-commits fixes only after passing tests + validation games, and a self-play arena with Elo/regression gates auto-promotes winners; every decision streams to a live React dashboard. Sole author; public on github.com/aberson.

Python 3.12, PyTorch, Stable Baselines 3, FastAPI + WebSocket, React/TypeScript

always-best-estimates - Black-Litterman Allocation Engine

Open Source | Shipped

Working end-to-end web app combining user return-views with market-implied returns via the Black-Litterman model (He-Litterman with Idzorek confidence calibration), then mean-variance optimization for long-only portfolio weights. Public: github.com/aberson/always-best-estimates.

Python, React/TypeScript

EDUCATION

M.A. Economics

University of Washington

2010

Graduate Certificate, Computational Finance

University of Washington

2010

B.S. Computer Science

University of Hawaii at Hilo

2004

B.A. Mathematics

University of Hawaii at Hilo

2004

CERTIFICATIONS

Google Cloud Certified - Generative AI Leader

Google Cloud

SKILLS

Languages: Python, R, SQL, C++, C#, JavaScript/TypeScript, VBA

AI / ML: LLMs, RAG, Agents & Agent Orchestration, Prompt Engineering, NLP, Document Extraction, LLM Evaluation & Model Benchmarking, Forecasting, Gradient-Boosted Trees (XGBoost, CatBoost), Anomaly Detection, Model Deployment

ML & Data Tooling: pandas, NumPy, scikit-learn, TensorFlow, Vertex AI, BigQuery

Engineering & Infra: FastAPI, React, Docker, Git, GCP, REST APIs, SQLite, mypy, pytest