

Brian Austin

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EXPERIENCE

Korra (Ledger Investing), New York, NY *Financial tech brokerage and analysis firm for insurance-linked securities.*

Senior Data Scientist/Machine Learning Engineer

Sept 2022 – present

- Initiated and built MCP server coverage for the platform's transaction and document-extraction functions, arguing to the CEO and head of engineering that agent-accessible interfaces would become table stakes; now prioritized on the delivery roadmap after client demand confirmed the thesis.
- Rebuilt 150+ historical transactions through automated skill harnesses to test whether agents could compose the platform's bordereau tools correctly, reconciling extracted triangles against hand-verified records (97% agreement on contract key terms). Attributed all 428 divergences to cause, zero unexplained — most tracing to prior-build defects or deliberate methodology changes rather than extraction error.
- Built an MCP server for Bermuda, the firm's open-source actuarial library, enabling live conference demo use by attendees whose IT controls prevented local installation.
- Previously applied the firm's Bayesian valuation models to price prospective deals and renewals, contributed to backtesting infrastructure, and owned Databricks pipelines for bordereau processing.

OneGlobe LLC, Reston, VA *Federal technology contractor staffing Kessel Run, a US Air Force software factory.*

Data Scientist/Technical Lead

May 2020 – Sept 2022

- Emerged as technical lead for a user analytics platform deployed to classified Air Force networks, directing engineering decisions for a team of 4–7 and reviewing code across the stack.
- Forked and extended a JavaScript analytics library to fit Air Force frontend standards and contributed to a companion Java library for backend services; both made available for integration across other product teams.
- Led Python analysis of event data against a Postgres warehouse, and replaced an initial Grafana-based approach after it proved undeployable on airgapped networks — teaching myself React to build custom dashboards alongside teammates, delivered on Kubernetes.

U.Group, Washington, DC

Data Scientist

November 2018 – May 2020

- Wrote NLP machine learning and graph data mining algorithms to resolve entities and draw insights from military intelligence data and pass them to a custom API also developed for the prototype.

Excella Consulting, Alexandria, VA

Data Scientist – Senior Consultant

August 2017 – November 2018

- Implemented Monte Carlo simulation in Python that simulated the \$100M change for a corporate hospitality client's customer rewards program – improved model reduced run time by 70% and errors by 90%.

ANALYST ROLES

Kaiser Associates Consultant

Nov 2014 – Oct 2016

The Advisory Board Company Analyst/Research Associate

Jan 2013 – Oct 2014

Greenberg Quinlan Rosner Research Project Associate/Research Associate

Sept 2010 – Dec 2012

SKILLS

- **Languages & Frameworks:** Python, JavaScript, React, SQL, FastAPI, Flask
- **Infrastructure:** AWS, Google Cloud, Docker, Kubernetes, Postgres, Databricks
- **AI/ML:** MCP, LLM application development, Pandas, Numpy, scikit-learn, PyMC3, PyStan

TALKS

"User Analytics for DoD Software," DoD Digital and AI Symposium, 2022 · Bermuda actuarial library demo, CLRS 2025 · "How and Why to Put Your Jupyter Notebooks Into Docker Containers," PyData NYC 2019

EDUCATION

General Assembly *Data Science Immersive*

March – May 2017

University of North Carolina at Chapel Hill

May 2010

B.A. Economics, Political Science – Minors: Creative Writing, Business Journalism