

Brianna Schuh

New York, NY | [linkedin.com/in/briannaschuh](https://www.linkedin.com/in/briannaschuh) | github.com/briannaschuh

EDUCATION

Yale University

B.S. in Statistics and Data Science

May 2023

PROFESSIONAL EXPERIENCE

BNY

New York, NY

Associate, Data Scientist II

March 2025 – Present

- Built and deployed the backend for an AI-powered tool that evaluates model registration forms, improving first pass yield to ~70% and reducing delays in model risk tier assignments
 - Designed FastAPI endpoints to handle LLM calls, retrieve SME-defined guidelines from OracleDB, log user activity and form metadata, and created a Splunk dashboard to monitor usage metrics, adoption rates, and system performance

Early Careers Analyst, Data Science

August 2023 – March 2025

- Designed and deployed an LLM agent system integrating sub-agents connected to various data sources, automating data retrieval and query execution for over 11,000 vendors, saving 52 hours per day – equivalent to the workload of seven full-time employees
 - Implemented OpenAI's function calling, creating JSON schema-based functions to match user queries with the appropriate sub-agent designed for the specific task, ensuring efficient handling of queries across the various data sources
 - Built a product recommendation pipeline by creating a FastAPI backend and leveraging RAG with 16,000+ product embeddings stored in Azure's vector database, enabling semantic search and improving query relevance
 - Integrated SharePoint and SQL-based agents for document retrieval and data extraction, streamlining access to all data types
- Built an initial version of a copilot aimed at assisting the Commercial Law Group's vendor negotiation review process
 - Optimized accuracy through LLM experimentation, achieving over 80% across 30 vendors, laying the groundwork for an estimated \$900k in annual savings in legal hours

Yale University

New Haven, CT

Undergraduate Learning Assistant (ULA), Multivariate Statistical Methods (S&DS 363)

January 2023 – May 2023

- Hosted weekly office hours and supported 240+ students via discussion board and assignment feedback

Bloomberg LP

Princeton, NJ

Data Analyst Intern

June 2022 – August 2022

- Built an internal app to detect Bloomberg Generic Price (BGN) volatility by using statistical methods and plots to identify outliers
- Designed a proof-of-concept automation tool for bank loan data utilizing microservices akin to Apache Airflow & AWS Lambda
- Created an internal app that generates up to 2,342 unique news stories featuring the highlights of the Housing Price Index (HPI)

S&P Dow Jones

New York, NY

Inside Sales Intern

June 2021 – August 2021

- Analyzed 25,000+ entries of sales, marketing, and investment consulting data to support team projects
- Enhanced the accuracy of the Salesforce database by 16% and the accuracy of the Marketo database by 8%

EXTRACURRICULARS

Kappa Kappa Gamma, Yale Chapter

New Haven, CT

President

December 2021 – December 2022

- Led a 75-member organization, managed a \$30k budget, and oversaw executive operations and recruitment

AWARDS

Ellsworth Prize in Science & Math, Yale: Awarded for writing the most distinguished senior thesis in Jonathan Edwards College

Kappa Kappa Gamma (KKG) Foundation Scholarship, KKG: Awarded for excelling in academics and promoting sisterhood

PERSONAL PROJECTS

- **LLM Reading Tutor:** Building a full-stack AI-powered web app using FastAPI, PostgreSQL, and React to help users learn Spanish by reading books with real-time GPT-based explanations
- **Senior Thesis:** Researched password complexity using techniques including k-means clustering, CNNs, and MLPs
- **Cribbage AI:** Implemented a genetic algorithm to optimize the values of a custom cribbage pegging policy

SKILLS

Python, SQL, Git, LaTeX, Agile, Jira, Machine Learning, Software Engineering, AI, LLMs, Technical Writing, Presentations