Nolan Choy

Boston, MA | Relocating to San Francisco, November 2026
(415) 509-0899 | nolanchoy@gmail.com

Analytics professional with 5 years of experience building decision tools for purchasing, inventory, and supplier strategy. Combines hands-on SQL and Python development with ownership of business requirements, product workflows, and cross-functional delivery.

WORK EXPERIENCE

Wayfair | Boston, MA

Data Scientist III, Supply Chain Intelligence | March 2026 – Present

- Automated purchasing plans for **200+ suppliers** within a **$104M+ annual budget**, integrating demand forecasts, supply projections, and margin targets into Open to Buy calculations to guide purchasing decisions.
- Expanded SQL-based replenishment automation across **1,500 suppliers**, increasing automatic publishing coverage from **19% to 88%** and saving 27 planner hours monthly in manual proposal creation.
- Co-developed an **assortment curation platform** in Python and FastAPI covering 6,200 products; brought margin, pricing competitiveness, market analytics, and AI insights into planner workflows for assortment decisions.
- Owned UX design and technical requirements for **physical retail replenishment** in the supplier portal, translating business needs into supplier-facing planning workflows and backend specifications with Engineering.
- Manage three data scientists delivering inventory and supplier analytics; set quarterly priorities with Commercial, Operations, and Engineering and coach analysts to own production workflows end to end.

Data Scientist II, Inventory Planning | March 2023 – March 2026

- Built a **Python and SQL supply planning engine** generating **$300M+ in monthly replenishment recommendations** across 100,000 SKUs, incorporating supplier and operational constraints into purchasing recommendations.
- Developed a probabilistic sales model using residual bootstrapping, **reducing absolute coverage error by 65%**; simulated demand to inform inventory policy and safety stock decisions targeting 92% availability.
- Segmented **2,500 suppliers** into six groups using PCA and clustering across 50 performance metrics, enabling differentiated supplier playbooks and performance comparisons against relevant peers.

Wood Mackenzie | San Francisco, CA

Supply Market Intelligence Analyst | October 2021 – February 2023

- Built **40+ regression-based supplier pricing benchmarks** controlling for specification, region, and volume; supported procurement decisions associated with **$8.4M in client-reported savings**, verified against contracted prices.
- Conceived and deployed the company’s first automated Price Index product in Python, delivering price inflation insights to four major clients to support procurement planning.

TECHNICAL SKILLS

Analytics: SQL, Python, R, BigQuery, Looker, Excel; forecasting, regression, simulation, segmentation

Development: FastAPI, Flask, Airflow, Git, GitHub, Jupyter, R Shiny, Cursor, Codex

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EDUCATION

Boston University | BA, Economics; Minor, Statistics | June 2021