

# JASON BIAN

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## Work Experience

### Amazon.com — Supply Chain Optimization Technologies

Data Platform Engineer II

New York, NY

May 2023 – Present

*Supported Project — Gen-QOT ([Andaz et al., 2024](#))*

- Built and maintained a low-latency data platform used to generate inventory purchasing decisions via trained RL policies.
- Developed RL inference pipelines for inventory purchasing decisions with active buying actions against 15% of US Retail.
- Maintained state machine orchestration (using Scala and Spark), feature-store storage (model outputs, input layer) and on-call workflows for RL runtimes.

*Supported Project — Coherent Probabilistic Hierarchical Neural Forecaster — CLOVER ([Olivares et al., 2024](#))*

- Defined temporal, legal, and lifecycle requirements with 20+ software and data science partner teams.
- Expanded the existing feature set to support real-time expected shipment dates for 90% of US Retail, reducing audit and risk workflows on generated predictions by 75%.
- Scaled daily vending API calls from 150 to 630 over 6 months and expanded the existing service response data model to include purchase\_order and profitability data domains.
- Provided 24/7 Sev-2 support for streaming and batch execution of 6 core hierarchical forecasting models using the CLOVER framework (1,100+ execution\_ids at zip, merchant, ASIN, and regional aggregations).
- Maintained a yearly PR count of ~155 across 26 packages with 2.3 avg revisions.

### Amazon.com — Worldwide Sustainability

Seattle, WA

Data Engineer II

Jun 2022 – Present

- Supported inventory transfer decisions targeting ~1.5% of US total emissions via the amazon.com green shipping button with ~524K ktions of fulfillment network carbon abatement in 2023 ([2023 Sustainability Report](#)).
- Increased high-specificity emission availability from 45% to 77%, carbon asset entity resolution from 33% to 90%, and item-level availability guarantees from 81.3% to 97.3% of US Retail via repartitioning, regionalization, and access pattern optimization on ~35.3B events per day.
- Grew internal usage from 27 to 55 teams during tenure, supported the amazon.com green checkout page as a customer.

### Microsoft — Azure Decision Science

Redmond, WA

Program Manager

Jan 2020 – Aug 2021

- Developed the demand arm of Microsoft's multi-echelon capacity management strategy; managed buying plans for Azure data-center compute with ~\$55M of monthly demand sensitivity.
- Improved offer restriction and quota management model coverage from 30% to 45% of Azure services; built CVP-level analytics for monthly capacity reviews.

### OptimChain

Ann Arbor, MI

Founder

Jan 2020 – Dec 2022

- Founded consulting shop for Azure cloud migrations and supply chain solutions; acquired \$45K revenue in 3 months and saved 1,800 hours of manual labor across all client projects ([Framework](#)).
- Managed contract negotiation, RFPs, and a team of 7 (3 US-based, 4 offshore) across ~7 engagements.

## Skills

**Languages:** Java, Python, Scala

**Frameworks:** Frontend (typescript, react, javascript), Infra (linux, typescript, cdk), Data (spark/pyspark, pytorch, airflow, numpy), LLM (conductor, claude code, mcp, response caches)

**Infrastructure:** AWS (emr, glue, s3, dynamodb, redshift, kinesis, sns, mq, ec2, sagemaker, step functions, lambda), Apache (livy, hazelcast, presto, beam, flink, avro, iceberg), Databricks (delta lake, managed mlflow, parquet), Temporal, Git Actions

**Production ML:** Reinforcement Learning, Deep Learning, Hierarchical Forecasting, ARIMA, Stochastic/Convex Optimization, Multivariate Regression, Linear/Integer Programming, Monte Carlo Simulation, Experimental Design, R

## Education

### University of Texas at Austin

Expected Dec 2025

M.S. Computer Science

GPA: 3.69

### University of Michigan, Ann Arbor

Dec 2019

B.S.E. Industrial and Operations Engineering

Major GPA: 3.83

## Projects

**Riot Match History Classifier:** [Guest lecture](#) on League of Legends API extraction and decision tree classification for INFO SYS 201 (University of Washington)

**2019 Ford Transit Camper Van:** House-van construction ([listing](#)), power management, and Li-Fo battery optimization