

Jeremiah Hall

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SUMMARY

Vice President level **data engineer** with 10 years of progressive experience building cloud data platforms, analytical **warehouses**, and reusable ingestion frameworks for financial services and digital products. Hands on work spans Python, pandas, Scala, AWS, Snowflake, PostgreSQL, MongoDB, and relational, columnar, and NoSQL data modeling. Career growth reflects increasing ownership of platform strategy, product oriented data design, software quality, and engineering leadership. Built **data lakes**, automated validation controls, infrastructure as code, and privacy aware workflows that support **analytics**, product decisions, and financial operations. Partnered with product, sales, analytics, and engineering teams to turn business questions into dependable data products. Comfortable leading complex initiatives, mentoring engineers, communicating with senior stakeholders, and balancing independent execution with shared delivery goals.

EXPERIENCE

Vice President, Data Engineering

July 2022 - Present

Harborline Capital Technology

New York, NY

Lead cloud data platform strategy for financial analytics and digital products, guiding engineers, architecture decisions, delivery standards, and stakeholder outcomes across **data infrastructure** and product initiatives.

- Led **Snowflake** platform redesign with **Python** pipelines, improving reuse across analytics and product teams.
- Built **AWS Lambda** and Kinesis **ingestion** flows, giving analysts fresher signals for financial decisions.
- Introduced Terraform controls for cloud resources, reducing deployment drift across data environments.
- Established PII review checkpoints, strengthening privacy practices across customer and market datasets.
- Mentored engineers through architecture reviews, helping teams resolve difficult pipeline and modeling decisions.
- Partnered with sales and product leaders, translating growth questions into dependable data **products**.

Senior Data Engineer, Financial Platforms

May 2019 - June 2022

Bluecrest Financial Systems

Jersey City, NJ

Owned **data lake**, warehouse, and financial pipeline engineering for high volume analytical workloads, combining hands on development with technical direction, quality controls, and cross functional delivery.

- Migrated reporting workloads into Snowflake, improving **retrieval** patterns for analysts and product teams.
- Created reusable Python and **pandas validation** frameworks, catching source defects before warehouse publication.
- Modeled **relational**, columnar, and NoSQL entities for varied operational and analytical use cases.
- Connected S3, Kinesis, and ElastiCache services, supporting responsive access to streaming market data.
- Documented pipeline standards and coached peers, making delivery practices easier to repeat across teams.
- Investigated usage patterns with **probability** and statistics, guiding corrective action for unreliable datasets.

Data Engineer, Market Platforms

September 2016 - April 2019

Cedar Peak Markets

Boston, MA

Developed market and product data services supporting financial workflows, with responsibility for pipeline implementation, data modeling, quality checks, and practical collaboration with analytics stakeholders.

- Built **Scala ingestion** services for market feeds, improving consistency across downstream analytical workflows.
- Created **PostgreSQL** and MongoDB models, matching **storage** choices with operational access requirements.
- Automated **cleansing** and **validation** checks, helping analysts trust newly published instrument data.
- Applied statistical checks to identify unusual records, shortening investigation time for data issues.
- Partnered with product analysts, shaping data interfaces around daily research and reporting needs.
- Wrote production software with peer reviews, strengthening maintainability across shared platform components.

Software Engineer, Data Platforms

September 2014 - August 2016

Maple Ridge Analytics

Philadelphia, PA

Built backend data services and scalable software foundations, contributing to ingestion, storage, testing, documentation, and stakeholder delivery across early career platform initiatives.

- Implemented Python services for structured **ingestion**, creating dependable foundations for **analytics** applications.
- Designed PostgreSQL tables for retrieval efficiency, supporting recurring operational reporting workloads.
- Added automated tests around transformation logic, reducing regressions during frequent pipeline changes.
- Documented service behavior and recovery steps, helping teammates support production data workflows.
- Reviewed source anomalies with analysts, turning recurring defects into clearer **validation** rules.
- Contributed to object oriented software design, building practical experience with maintainable platform code.

PROJECTS

Financial Data Quality Framework 📅 2024

Created a reusable framework for ingestion, cleansing, validation, and quality review across financial datasets. Focus remained on trusted outputs, clear ownership, and practical controls for analytics consumers.

Cloud Market Data Lake 📅 2022

Shaped a cloud data lake using AWS services and Snowflake patterns for market information. Work connected scalable storage with retrieval needs across analytical and operational use cases.

LEADERSHIP & AWARDS

- Recognized with executive sponsorship for dependable financial data platform delivery and stakeholder trust.
- Selected to mentor engineers through architecture reviews, pipeline standards, and practical software quality practices.
- Led cross functional initiatives linking product, sales, analytics, and engineering priorities to measurable delivery outcomes.

EDUCATION

Master of Science in Computer Science

Northeastern University GPA: 0

Coursework: Data engineering, distributed systems, machine learning, database systems

2016

Boston, Massachusetts

Bachelor of Science in Mathematics

Temple University GPA: 0

Coursework: Probability, statistics, linear algebra, mathematical modeling

2014

Philadelphia, Pennsylvania

CERTIFICATIONS

- AWS Certified Data Engineer Associate 📅 2025
- AWS Certified Solutions Architect Associate 📅 2024

TECHNICAL SKILLS

- **Programming Languages:** Python, Scala, Java
- **Data Analysis:** pandas, R, MATLAB
- **Cloud Services:** AWS Lambda, Amazon S3, Amazon Kinesis
- **Data Warehouses:** Snowflake, Amazon Redshift, data warehouses
- **Databases:** PostgreSQL, MongoDB, relational databases
- **Data Architectures:** Data lakes, columnar designs, NoSQL designs
- **Infrastructure as Code:** Terraform, CloudFormation, infrastructure as code
- **Data Processing:** Data pipelines, ingestion, cleansing
- **Data Quality:** Validation, data quality, automated controls
- **Financial Data:** Financial markets, financial instruments, FinTech data engineering

SKILLS

- Python
 - pandas
 - Scala
 - Java
- Kotlin
 - AWS Lambda
 - Amazon S3
 - Amazon Kinesis
- ElastiCache
 - Snowflake
 - Redshift
 - PostgreSQL
- MongoDB
 - Terraform
 - CloudFormation

PROFESSIONAL AFFILIATIONS

- Association for Computing Machinery, New York professional member.
- CFA Institute, technology and financial data community participant.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST