

# Alexander Bean

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## EDUCATION

Boston University, *Department of Computer Science*

**Master of Science – MS, Computer Information Systems**

Concentration: Database Management & Business Intelligence

*Boston, MA*

Anticipated May 2026

Bryant University, *Department of Information Systems & Analytics*

**Bachelor of Science in Business Administration – BSBA, Information Systems**

Minors: Finance & Psychology | Department GPA: 3.8/4.0

*Smithfield, RI*

May 2023

## SKILLS

**Languages:** SQL, Python (PySpark, Pandas, NumPy), Java, HTML, JavaScript, DAX

**Tools/Platforms:** PostgreSQL, MySQL, Azure, AWS, Databricks, Power BI, Docker, Terraform, Jira

## EXPERIENCE

### Arbella Insurance Group

*Quincy, MA*

Information Technology Business Analyst II

Sep 2024 – Present

- Spearhead **data engineering** initiative as a developer and independently create end-to-end pipelines to extract and prepare network data for dashboards to monitor performance trends and service-level agreement compliance.
- Develop **ETL** scripts to ingest and transform data from numerous vendor APIs using **Python** and **SQL**.
- Conduct **data modeling** in designing and implementing databases for analytics in **Microsoft SQL Server**.
- Orchestrate batch jobs to routinely run pipelines, saving hours per month for the team through **automation**.

Information Technology Business Analyst I

Oct 2023 – Sep 2024

- Led the impact assessment process for updates and releases of the IT Infrastructure and Data & Analytics teams.
- Thoroughly represented **100+ releases** and produced a **56% increase** in timely approvals and an **85% increase** in correctly scoped submissions, streamlining the approval process and significantly increasing release efficiency.
- Wrote and optimized **Oracle** database queries used by new APIs to support enterprise business applications.
- Defined technical requirements, designed and executed test cases, and enforced information security best practices in a large-scale and high-visibility project to modernize company contact centers.

## CERTIFICATIONS

**Microsoft Certified: Azure Data Fundamentals**, *Microsoft*

**Entry Certificate in Business Analysis (ECBA)**, *IIBA*

**Databricks Lakehouse Fundamentals**, *Databricks*

**Six Sigma Yellow Belt**, *Six Sigma Online*

**Big Data Analytics for Risk and Insurance**, *The Institutes*

**ITIL 4 Foundation**, *AXELOS*

## PROJECTS

### End-to-End Data Engineering in Microsoft Azure

Jun 2024 – Jul 2024

- Assembled an end-to-end ETL pipeline using **Data Factory**, **Data Lake Storage**, and other Azure cloud services.
- Extracted data from on-prem SQL Server into a data lake and transformed it with **PySpark** in **Azure Databricks**.
- Loaded the cleansed data into **Azure Synapse Analytics** and visualized data insights in a **Power BI** dashboard.

### Shipment Management Application

Jan 2023 – May 2023

- Designed a low-code shipment tracking application model on Bubble.io, designed use cases and scenarios with **Visio**, and prepared a SQL database with views, triggers, audit tables, and an **MS Access** connection via **ODBC**.

### E-Commerce Site & Database

Sep 2022 – May 2023

- Constructed a coffee shop website in **HTML** with customer accounts in **Java** and an **Apache Derby** database.
- Implemented an interactive shopping cart with **JavaScript** and supported the user experience with a **CSS** file.