

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, PowerShell (dbatools)

Data Engineering: PostgreSQL, MySQL, Microsoft SQL Server, Databricks, Snowflake, Power BI

Cloud & DevOps: Azure, AWS, Docker, Terraform

EXPERIENCE

Arbella Insurance Group

Quincy, MA

Information Technology Business Analyst II

Sep 2024 – Present

- Spearhead **data engineering** initiative to power business intelligence dashboards to monitor SLA compliance.
- Build **ETL pipelines** independently using **Python** and **SQL** to ingest and clean data from vendor **REST APIs**.
- Collaborate with senior management to define data **requirements** and align pipelines with business needs.
- **Automate** database admin tasks via **PowerShell** scripting, saving hours per month for business-critical tasks.
- Facilitate department-wide adoption of **Jira** and implement **Agile** methodologies within department processes.

Information Technology Business Analyst I

Oct 2023 – Sep 2024

- Improved precision of release notes for **100+ releases** of the IT Infrastructure and Data & Analytics teams, producing a **56% increase** in timely approvals and an **85% increase** in correctly scoped submissions.
- Wrote and optimized **SQL** queries used by APIs, promoting efficient data retrieval for enterprise applications.
- Developed **data models** and dashboards in **Power BI** to visualize resource utilization and allocation across virtualized environments, enabling proactive resource management and quantifiable metrics for reporting.
- Defined **requirements** and conducted **test cases** in a large-scale project to modernize company contact centers.

CERTIFICATIONS

Microsoft Certified: Azure Data Fundamentals, *Microsoft*

Databricks Lakehouse Fundamentals, *Databricks*

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

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

Six Sigma Yellow Belt, *Six Sigma Online*

ITIL 4 Foundation, *AXELOS*

PROJECTS

End-to-End Data Engineering in Microsoft Azure

Jun 2024 – Jul 2024

- Assembled an **ETL pipeline** in **Azure Data Factory** and transformed data with **PySpark** in **Azure Databricks**.
- Leveraged **Synapse Analytics** for **data warehousing** and visualized insights in an interactive **Power BI** report.

Shipment Management Application

Jan 2023 – May 2023

- Designed a shipment tracking application model on Bubble.io, designed use cases and scenarios with **Visio**, and prepared a **MySQL** database with views, triggers, audit tables, and an **Microsoft 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.