

Michael Beauchamp

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SUMMARY

Founder and systems architect with a background in predictive analytics, data engineering, and platform design. Experience includes financial systems, embedded data workflows, and analytics in regulated, operational environments. Currently building LeanBuild™, a financial control platform for QuickBooks-native general contractors.

Selected roles prior to founding LeanBuild™.

EXPERIENCE

Carrier Corporation

Senior Analyst, Supply Chain Intelligence

Indianapolis, IN

Dec 2011 – 2025

- Led the design, development, and implementation of 25+ SAP BOBJ Web Intelligence reports and interactive dashboards, providing real-time insights into supply chain KPIs and enabling data-driven decision-making.
- Built SQL stored procedures and ETL pipelines to integrate and prepare data for SAP and BOBJ platform implementations.
- Developed machine learning models in Python to improve demand forecasting accuracy by 15%, enabling superior supply planning.
- Performed multivariate regression and clustering analysis in R to identify predictors of customer churn and guide retention strategies.
- Applied data mining and predictive modeling techniques to identify demand patterns, resulting in a 10% improvement in demand forecasting accuracy and optimized inventory management.
- Played a pivotal role in improving SAS data models and data warehouse administration, ensuring data integrity, and enabling 33% faster query performance.

UnitedHealth Group – Optum

Data Engineer, Healthcare Analytics

Franklin, TN

May 2011 - Dec 2011

- Engineered an automated ETL pipeline to integrate Medicaid member data into on-premises databases enhancing data quality and accessibility.
- Built data architecture and Python ETL processes for loading healthcare claims data into databases.
- Implemented data quality checks and validation processes to ensure accuracy and reliability.
- Provided data engineering support for machine learning initiatives related to claims analysis.
- Communicated data insights to cross-functional teams to drive enhancements.

MRC Global

Data Engineer, Supply Chain Analytics

Tulsa, OK

May 2008 - Sep 2009

- Developed dynamic web applications using HTML, JavaScript, ColdFusion using SQL against Oracle back-end database.
- Performed statistical analysis in R to monitor data quality, identify anomalies, and recommend process improvements, improving data accuracy by 20%.
- Built end-to-end machine learning models in Python to predict inventory needs, enabling superior demand planning.

The Rowland Group

Data Engineer, Pricing Analytics

Tulsa, OK

Nov 2007 - May 2008

- Built machine learning models in Python to forecast product demand, improving sales projections by 10%.
- Designed MySQL database schema to allow for scalable storage and faster querying of large pricing datasets.

DataCom, Inc.
Software Engineer

Broken Arrow, OK
Nov 2006 - Nov 2007

- Built Microsoft SSRS reporting dashboard to uncover customer, product, and sales insights for executives.
- Designed contract and revenue web pages using ASP.NET and C#.

Northeastern State University
Data Analyst, Enrollment Analytics

Tahlequah, OK
May 2001 - Nov 2006

- Built logistic regression models in Python to identify factors influencing student enrollment, improving admissions forecasting by 30%.
- Designed MySQL database schema and ETL pipelines to integrate student data from multiple systems into a single database.
- Performed cohort analysis in R to track graduation rates across student demographics and guide retention initiatives.
- Implemented statistical models to predict students at risk of dropping out.
- Developed Excel visualizations to provide enrollment insights and trends to university leadership.

TECHNICAL SKILLS

- Python, R, SQL for data analysis, statistical modeling, and automation
- Experience with regression, GLM, clustering, and applied machine learning
- Familiarity with relational and NoSQL data stores (PostgreSQL, MySQL, Cassandra, MongoDB)

EDUCATION

• **MIT Professional Education**
Certificate: Applied Data Science

Boston, MA
July 2023

• **Northwestern University**
M.S. in Predictive Analytics

Evanston, IL
March 2016

• **Northeastern State University**
B.S. in Mathematics

Tahlequah, OK
December 2011