

Michael Beauchamp

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SUMMARY

Fintech systems architect with 20+ years of experience in enterprise analytics, software design, and vertical SaaS platform development. My expertise spans API-first architecture, embedded payments, milestone billing logic, and QuickBooks API integration. Currently focused on building financial operating systems for SMBs in construction and services, with a track record of automating high-friction workflows across operations and finance.

EXPERIENCE

Carrier Corporation

Senior Analyst, Supply Chain Intelligence

Indianapolis, IN

Dec 2011 – Present

- Led end-to-end system architecture for data platform modernization, including BI dashboards, ETL automation, and real-time reporting frameworks.
- Designed scalable Python and SQL-based pipelines supporting financial and operational analytics.
- Served as internal product owner for multiple re-platforming efforts now informing broader fintech architecture for B2B SaaS.
- Pioneered API-ready data services enabling predictive forecasting and performance optimization.

UnitedHealth Group – Optum

Data Engineer, Healthcare Analytics

Franklin, TN

May 2011 - Dec 2011

- Built automated ETL pipelines for Medicaid claims and eligibility systems.
- Developed fraud detection classifiers in Python and implemented clustering for utilization analysis.
- Supported downstream analytics and machine learning models through clean, validated data infrastructure.

MRC Global

Data Engineer, Supply Chain Analytics

Tulsa, OK

May 2008 - Sep 2009

- Developed internal inventory optimization models using Python and R.
- Created web applications for dynamic reporting using SQL and Oracle backend.
- Conducted anomaly detection and statistical quality analysis on vendor and logistics data.

The Rowland Group

Data Engineer, Pricing Analytics

Tulsa, OK

Nov 2007 - May 2008

- Built pricing elasticity models and forecasting tools in Python.
- Designed scalable MySQL schema for large pricing datasets supporting demand simulation.

DataCom, Inc.

Software Engineer

Broken Arrow, OK

Nov 2006 - Nov 2007

- Developed Microsoft SSRS dashboards and built web-based financial reporting systems using ASP.NET & C#.

Northeastern State University

Data Analyst, Enrollment Analytics

Tahlequah, OK

May 2001 - Nov 2006

- Built predictive models to identify students at risk of attrition and designed cohort retention reports.
- Created custom MySQL data integration pipelines for enrollment forecasting and leadership reporting.

TECHNICAL SKILLS

- Languages & Tools: Python, SQL, R, Power BI, Tableau, Git
 - Systems: API-first architecture, embedded finance workflows, SaaS modular design
 - Integrations: QuickBooks Online API, ACH/Escrow automation, ETL pipelines
- Data Platforms: Oracle, MySQL, MongoDB, AWS, Azure

EDUCATION

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|---|--------------------------------|
| <ul style="list-style-type: none">• MIT Professional Education
Certificate: Applied Data Science | Boston, MA
July 2023 |
| <ul style="list-style-type: none">• Northwestern University
M.S. in Predictive Analytics | Evanston, IL
March 2016 |
| <ul style="list-style-type: none">• Northeastern State University
B.S. in Mathematics | Tahlequah, OK
December 2011 |