

CHRISTOPHER C. BOWDEN

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Career Summary

20+ year data analytics professional with emphasis on process analysis and actionable reporting. Professional knowledge domains include: relational and dimensional data modeling, software engineering and SDLC, theoretical mathematics, defense contracting, security analysis, global logistics, electronic health record software, flight training, and process mining.

Data Engineer

SQL 2000-2017, T-SQL ETL, CDC, Oracle PL/SQL, MDS, DQS, Azure, Vertica, SAP, AWS, SSMS

Data Analyst

Excel, Python, Maple, R, SPC UCL/LCL, Naive Bayes, Forecasting, Clustering

Business Intelligence

SSRS, PerformancePoint, PowerBI, Tableau, COGNOS, Crystal Reports, Celonis PQL

Data Warehouse Architect

Kimball Method, SSAS, XMLA, SSIS, MDX, Data Modeling, Star/Snowflake, EDW, BIML

Project Management

JIRA, Confluence, Agile, GitHub, Visual Studio, TFS, Subversion, SAFE

Application Development

PowerShell, ASP, ASP.Net, VB.Net, C#.Net, Java, ColdFusion, HTML, XML, C, C++

Professional Experience

MERIDIAN TECHNOLOGY, Lead Data Engineer and Architect *Remote-Global* (April 2021 - Present)

- Provides technical consulting to Johnson & Johnson management on data engineering and project management-related issues and estimates.
- Implements Celonis IBC process mining for global continuous process improvement of Order-to-Cash, Production Planning, and Procure-to-Pay value streams. Develops extraction and transformation scripts, designs process models, and creates analysis visualizations.
- Mentors team as SME, customer staff, and end users in Celonis technology, data engineering best practices, and data modeling concepts.

LOCKHEED MARTIN Enterprise Ops, Lead Data Analytics Engineer *Remote-US* (Aug 2020 - April 2021)

- Drove ERP standardization across Lockheed business areas by comparing as-is processes to SAP and Deloitte industry best practices.
- Responsible for the entire Celonis pipeline, from data collection via SAP SDI to business logic capture in SQL logic to model and analyses.
- Consulted and evangelized Celonis business process modeling to new business areas to drive process standardization and optimization.

LOCKHEED MARTIN RMS, Lead Data Analytics Software Engineer *Remote-Global* (April 2017 - Aug 2020)

- Lead an Agile team of 5 to successfully deliver BIML-generated data warehouse projects for UK and AUS Air Force customers. Estimated task efforts and balanced team workloads through daily and weekly scrums, sprint retrospectives, and monthly program meetings.
- Developed SQL 2014 OLAP reporting solutions (TSQL, SSAS, MDX, SSRS, PerformancePoint) and Master Data Management implementation (MDS, DQS). Designed and developed BIML automated data warehouse for Flight Training, Learning, and Maintenance applications. Delivery was automated using Powershell, environment-specific JSON configuration files, and SQL Server Data Tools build packages.

MEDCONNECT INC, Lead Data Warehouse Engineer and Architect *Montgomery, AL* (Oct 2014 - April 2017)

- Delivered SSRS, SSAS, SQL 2012 replication solution consisting of 32 measures and 10 dimensions within 4 months of start. Solution has grown to 5 cubes with over 100 measures, enabling faster, more accurate year-end attestation for Meaningful Use, NQF, and PQRS.
- Decreased reporting workflow burden by over 95% per request, saving >55,000 hours annually across 1300 healthcare providers.
- Championed Agile as Scrum Master using TFS to address shortcomings in business forecasting, capacity planning, and team morale.
- Assisted CEO with cloud migration cost/performance analyses, candidate interviews, security posture review and policy definition.

LOCKHEED MARTIN MFC, Data Warehouse Engineer and Architect *Lexington, KY/Remote-US* (Jan 2013 - Oct 2014)

- Enabled accurate, unified accounting for over \$2 billion equipment by combining disparate data into a SQL 2008 Enterprise Data Warehouse (EDW). Data was captured using TSQL, PL/SQL, and SSIS, then visualized through SSRS, PerformancePoint, and SharePoint.
- Drove the technical and political adoption of Kimball methods to promote repeatable DW project lifecycles. Lead DW team in Agile storyboarding, sprint planning, and prioritization of backlog.

LOCKHEED MARTIN IS&GS, Data Engineer *Montgomery, AL* (Nov 2011 - Jan 2013)

OTI INC, Sr Metrics Analyst *Montgomery, AL* (Aug 2005 - Jan 2008, Oct 2008 - Nov 2011)

- Created SLA data mart ETL and decreased weekly reporting time by 95%, freeing two FTE's and saving over \$1 million in labor to date.
- Reduced frivolous alerts and unnecessary manpower allocation by implementing statistical process control on security layer logs.
- Gathered, aggregated, and stored ~80 million log records daily from 40+ servers into a 3Tb SQL 2005 data mart using SSIS and TSQL.

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Consulting Engagements

HLTH.IT / Cancer Treatment Centers of America, Data Architect and Engineer Remote (Nov 2019 - Feb 2020)

- Consulted Azure Data Warehouse modeling and SSIS ETL best practices. NDA

Doozer Software, Data Engineer Remote (Feb - March 2017)

- Consulted MSSQL best practices, performance tuning, and DB2 migration/modernization to MSSQL.

Training & Certification

CELONIS ***Certified Celonis Implementation Professional*** (2021)

Viewer, Analyst, Data Scientist 4 (2020)

DATA CAMP *Introduction to Time Series Analysis in Python* (2018)

Introduction to Python for Data Science, Intermediate Python for Data Science (2018)

Introduction to R (2017)

KIMBALL GROUP *Dimensional Modeling In Depth* (2013)

Microsoft DW/BI Lifecycle In Depth (2013)

MICROSOFT *Course 10778: Implementing Data Models and Reports with SQL 2012* (2013)

Education

TROY UNIVERSITY *Montgomery, AL* (2008-2010)

Master of Science, Computer Science

Published Research Title: *Using Hadoop, MapReduce, and Cloud Services to Find Factors of RSA Primes*

AUBURN UNIVERSITY *Montgomery, AL* (2003-2007)

Bachelor of Science, Mathematics

Senior Thesis: *Bayesian Data Mining*

References

Brooks Olphin, *Johnson & Johnson, Senior Manager* 717-434-3381

Juan Gomez *Lockheed Martin, Principal Systems Architect* 407-306-1096

Adam Kalicki *Lockheed Martin, Software Engineering Manager* 407-306-5815

Jimmy Chapman *MedConnect Inc, CEO* 334-215-3568