**Data Scientist**

**Data Warehouse Architect - Data Modeler - Data Engineer - Data Operations - Data Management**

**Data** is the lifeblood of the modern organization. Whether large or small; accessing, understanding, and analyzing the data that runs the business is more important than ever. Throughout my career, I have focused on the **unwavering dedication** to ensure the right people get the right data at the right time in the right format.

**Career Overview**

* **Firstlight.ai**  Data Strategist 9/2020-Present

I defined the Data Strategy for bringing data together from multiple applications to a consolidated data platform that produces data visualizations. I designed and implemented the tools and techniques for producing consumer and content-based recommendations for our media player using graph technologies.

* **Kore Wireless**  Data Services Manager 9/2018-9/2020

I have improved the newly created Data Services team by improving responsiveness, proactivity, and uptime. My three groups Infrastructure, Integration, and Intelligence work together to improve data quality, performance of operational systems, and reporting analysis for our customers.

The Infrastructure team has automated many of our tasks through the IDERA toolset for backups and restores and making recommendations for development teams to improve code.

The Integration team builds and monitors all data integration tasks between our home-grown applications and Cloud based applications such as NetSuite, Salesforce, and Intershop using Snaplogic.

The intelligence team has rolled out PowerBI dashboards to provide better visibility into our application data. Our preventative maintenance windows have increased in frequency providing more proactive due diligence, and our unexpected downtimes have dropped to only once a week intervention.

* **Cengage Learning** Data Scientist 9/2015-9/2018

Defined the Data Science process at Cengage Learning. Performed R based textual analysis on HR feedback data for better employee engagement. Created a Data Mining pipeline using Snowflake DB with SparkR for analysis, and Tableau or Looker for data visualization. I created an Ensemble predictive model using SQL rules, and R decision tree's to accurately (Precision/Recall both above 80%) predict behaviors that at risk students exhibit.

I created a Semantic analysis process for HR data to quickly parse through 100's of comment feedback to focus HR on the issues and sentiment most important to employees in different offices. Using Fourier analysis, I could classify both students and courses into behavior groups for anomaly detection.

I created a Markov chain model to identify higher performing groups of students. I supported a system using Neo4J for analyzing search queries and results for our periodical business unit.

* **Illumination Works** Senior Consultant 10/2014-9/2015

My customer is Cengage Learning; we are using Amazon Redshift as a data repository for a clickstream analytics project. Our analytics tools are R, Tableau and Cognos. The homegrown, Python based, data movement processes managed by Jenkins runs a continuous pull cycle from our S3 integration point with our data provider.

* **Clear Measures**  Principal Consultant 10/2013-9/2014

My project was to lead a data warehouse implementation using Data Vault Methodology for an origination analytic project. We were using Informatica as the ETL platform, Oracle as our database platform, and Cognos as the reporting platform. The entire data warehouse Architecture, designed in ERWin, pulls data from various sources and populate our data marts visualized via Cognos.

* **3M HIS**  Lead Data Engineer 12/2011-10/2013

I designed a cloud-based infrastructure for the management of health care data for 3M customers. Using RightScale to manage our clouds (Rackspace, Azure, AWS, and OpenStack), and direct configuration tools for our hosted data centers (SunGard). Our data platforms are diverse: DataStax Enterprise Cassandra, SQL Server 2008, Cloudera Hadoop, and Percona MySQL using Gazzang as an encryption technology to ensure we comply with HIPAA in protecting our PHI data.

I perform Cassandra Administration, data server configuration, capacity planning, data modeling, Pentaho Deployment, and performance tuning and on-call support as the need arises. I also managed a team of DBA’s supporting the operational systems that stored our customers PHI data. Our primary application supports the medical coding industry by using natural language processing on physician transcriptions. The enrichment and analysis of this medical data is the main goal of our organization.

* **Rent The Runway**  Data Warehouse Consultant 07/2011-12/2011

Rent the Runway is a high fashion rental portal that allows women to rent designer items for events they wish to attend. This was a proof-of-concept project to determine the future Business Intelligence platform that Rent the Runway would be using. I built the foundation of a data warehouse to optimize the performance of the analytical team. This entails the creation of a new data model and development of ETL procedures to load the new data model.

* **Sunrise Senior Living**  Data Warehouse Developer 10/2008-07/2011

The financial data mart I worked on brought together actual and budget data from PeopleSoft. We developed the data models, created the PL/SQL code to populate the models and assisted the BI team with query optimization and tuning. Our PL/SQL code ran on a nightly basis for loading the data models. The prior system ran once a month and loaded the data into a macro controlled excel spreadsheet. I specifically worked on loading the data into fact tables, performance optimization of the queries generated by OBIEE, and custom calculations done at the data layer to improve performance of OBIEE.

* **Robert Half Technology**  Data Management Consultant 04/2008-10/2008

I was a data management consultant with various customers in the Washington D.C. area. The systems that I have worked on include conversion of applications from Microsoft Access based system to LAMP based PHP/MySQL back-end. I have also deployed the Zabbix network-monitoring tool to increase the reliability of one of the network.

* **FreshDirect**  Director of Data Warehousing 02/2007-03/2008

I led our Enterprise Data Warehouse project. The EDW was an Oracle based data warehouse that brought in data from Oracle, SQL Server and MySQL based systems. We used Business Objects Data Integrator and Pentaho Data Integrator for our ETL tools. The data warehouse, designed as a Data Vault architecture, used for consolidation of multiple system and key integration of our disparate systems. From the Data Vault, we began feeding traditional star schema-based data marts for reporting via Business Objects.

* **SAIC**  Senior DBA 03/2006-02/2007

There are several Biometric Intelligence Resource (BIR) applications based on SQL Server 2000 for the identification of non-allied personnel in combat areas deployed throughout the world. The project I worked on was an effort to consolidate all the data from each of the BIR applications.

* **Chico's**  Senior DBA 07/2005-03/2006

As a Senior Database Administrator in a SQL Server 2000, I worked to define an Enterprise Data Architecture that will support our Data Warehouse, Business Intelligence, and Enterprise Application Architectures

* **Chase Student Loans** Manager of Database Operations 11/2002-07/2005

As a Database administrator manager in a SQL Server 2000 and Oracle environment, I managed a group of eight people supporting 16 production/development database servers. These databases range from Clustered SAN based systems to stand-alone servers.

The Operational Data Store was the centralized repository for the consolidation of data from our diverse systems. We loaded the campaign data from the marketing department and processed it such that it could be loaded onto both the dialer as well as the .Net application. At the end of the day extracts were done from the dialer, the Cache' system, and the .Net application to produce consolidated reports. As new users were migrated into the Business Intelligence environment, we certified them in training, and then added them in Business Objects security.

* **Lockheed Martin**  Software Developer 2000-2002

I worked as a Database administrator for a Sybase and Oracle based project consolidating the management of diverse logistics systems around the world. On a separate project I worked as a developer on an Information Assurance team where we maintain a lab environment for testing of Intrusion Detection Software for the National Security Agency.

* **TekSystems**  Software Consultant 1998-2000

I worked on a team to update a sales commissioning system. The application creates commission data based on customer orders for sales agents. I worked on a proof-of-concept system migrating software from proprietary systems to open source to reduce costs to the DOD.Managed the financial accounting software pipeline for customer billing.

* **Management Controls**  Software Developer 1998

My responsibilities included developing and maintaining a Visual C++ application that used embedded SQL with ODBC to communicate to SQL Server 6.5, installation and configuration of the Oracle Test Database, and porting the code to use Oracle as a database in addition to SQL Server.

* **El Paso Energy** Software Developer 1995-1997

Led a team that maintained and supported a pseudo real-time DOS based C application deployed at 20 different field locations. This application communicated with specialized hardware to enable Fuel trucks to load petrochemical products onto the truck.

* **Software AG** Product Consultant 1992-1995

*Professional Services Consultant:* I traveled to various customers’ sites troubleshooting both Software AG Products, and non-Software AG products with many related problems.

*Senior Quality Assurance Specialist (1/93 to 6/95):* QA Specialist testing Entire APPC Server and managing release cycles.

* **United States Marine Corps** Database Administrator 1988-1992

I was responsible for the operations of a large ADABAS/Natural environment. My responsibilities included installation, conversion, tuning, and troubleshooting all databases including programs accessing the database. I provided coordination for large projects involving multiple groups. My Systems Programmer Responsibilities included providing technical assistance, troubleshooting, and maintenance of various proprietary products including running on the MVS/XA operating system.