

Jerry Lee Young

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Professional Summary

Solution Architect specializing in distributed big data systems (Primarily Greenplum) and real-time data pipelines. Extensive experience with High Availability Postgres on Kubernetes, as well as High Availability Postgres with

Patroni for healthcare and telecom customers. Using Github Actions Workflows to automate migration/deployment/maintenance. Cloud (AWS, GCP) infrastructure design, architecture and database engineer experience in all phases and sizes of big data projects. Extensive online advertising/targeting experience as well as 100TB+ data system design/tuning/migration. Experience with secure IoT data ingestion & financial services background. Expert at SQL and ETL/ELT system tuning. Experience with large Greenplum installations, migrations, gpcopy, resource groups and tuning.

Work Experience

Solutions Architect

zData Inc.

January 2014 to Present

Focused on Greenplum, Postgres on Kubernetes as well as cloud (AWS, GCP) Big Data solutions. Work closely with Data Scientists and SMEs to ingest the right data at the right grain into the right set of secured tools. Solutions include S3,

Encrypted EBS, PostgreSQL, RedShift, hardened EC2 instance as well as appropriate cloud security layers. Experience includes NiFi, BigQuery, BigTable and exposure to DataProc.

Data Architect - Developer (Greenplum and MSSQL)

Adknowledge

March 2013 to January 2014

- Extensive ETL/ELT from MSSQL to Greenplum DB using Perl and Gpload/Gpfdist in high availability environment.
- Subject matter expert on project re-architecting/migrating MSSQL processes to use Greenplum.
- Extensive Greenplum partitioning and compression changes to improve performance.
- Worked with Google Analytics API and SQL Server Analysis Services (SSAS)
- Convert SSAS cubes to SQL Server 2012.

Lead Greenplum Architect/Engineer

Depository Trust Clearing Corporation

August 2012 to March 2013

- Leading Greenplum implementation and conversion from Oracle on project to provide data to Federal Regulators for various regulatory reporting requirements.(Dodd-Frank,CFTC,ODRF)
- Developed framework to ETL data from Oracle into Greenplum using Perl DBI and GPLOAD/GPFDIST.
- Data analysis to determine most reliable approach to ETL Oracle tables to Greenplum based on business requirements.

- Work with EMC to troubleshoot and resolve issues with Greenplum appliance.
- Performance tuning of all Greenplum processes.
- Recognized as project/Greenplum “subject matter expert”.
- Primary interface to business units/asset classes/ upper management.
- Created processes to perform data integrity and validation checks at a granular level to compare the source database to Greenplum.

Data Architect - Data Analytics/Behavioral Targeting

Adknowledge

October 2010 to August 2012

- Designed and developed over 100 ETL processes to pull revenue impacting data from multiple channels and load into Greenplum Data Warehouse for statistical analysis as well as cross channel KPI reporting.
- Designed and developed ETL alerting processes to monitor all processes and ensure data integrity as well as timeliness of data.
- Designed and developed processes to consume data from external data providers such as IP Geo Location, User Behaviors, web crawl data aggregators and census bureau data to be used by statisticians to increase revenue.
- Designed and developed multiple data aggregation stored procedures to simplify statistical analysis and improve database performance.
- Responsible for all processes used in the Data Analytics Greenplum data warehouse as well as user access and permissions.
- Responsible for interfacing with multiple channels to gather business and data requirements to understand their data and educate statisticians and mathematicians on usage.

Software Engineer

Internet Advertising Industry

July 2009 to October 2010

- Develop Oracle, Mysql and Postgres/Greenplum database ETL processes working with 41 TB of data.
- Work with data analytics/behavioral targeting as well as DBA's to determine most effective and efficient ways of providing and updating analytic and historical data to be used to increase revenue as well as uptime and database performance.
- Create Perl , Shell and Python scripts to run on Linux servers as part of the ETL process.
- Analyze PL/SQL as well as other variations of SQL code, write procedures and improve database efficiency.
- Research data issues and revenue changes to determine where certain problems exist.

Senior Data Analyst

Allegro Development

May 2008 to January 2009

- Developing and supporting complex T-SQL and PL/SQL scripts to synthesize Energy Trading Risk Management transactions for various commodities.
- Work with numerous departments to gather requirements related to the development and maintenance of the standard application database.
- Development of complex T-SQL scripts used to identify and resolve data integrity issues.
- Responsible for the 2 MS SQL Server 2005 databases. (Backup, restore, migrating data between databases) standard database for new implementations.
- Developed SSIS packages to automate ETL processes as well as the creation of the new standard application database.
- Crystal Reports XI development.

Database Programming and Reporting

DEMDACO

April 2007 to April 2008

- Developed Oracle PL/SQL stored procedures and functions for reports and projects related to Warehouse operations as well as Finance, Accounting, Marketing, Supply Chain and Customer Care.
- Expert level Crystal Reports 10 Development, Support and Performance Tuning.
- Developed SSIS 2005 package to administrate ownership and use of existing Crystal Reports.
- Assisted in troubleshooting software and hardware related issues.
- Converted slow running Crystal Reports to use Oracle Stored Procedures to improve performance.
- Worked extensively with internal clients to gather business requirements and research open tickets related to Crystal Reports, Oracle Procedures as well as SQL Server 2000 and 2005 procedures.
- Maintained database security to Oracle and SQL Server objects.
- Developed new reports and made enhancements to existing reports to meet clients business intelligence needs.

Database Programming and Reporting

K2B

October 2006 to April 2007

- Developed and enhanced T-SQL stored procedures and DTS tasks for the retail industry using Microsoft SQL Server 2000.
- Performed troubleshooting of software and hardware related issues in addition to security and permissions issues.
- Developed Crystal Xcelsius Dashboards using the stand-alone and XML workgroup version of Business Objects' Crystal Xcelsius designer.
- Resolved database and reporting issues in a timely manner using SQL Server and Visual Basic.
- Developed new reports and made enhancements to existing reports to meet clients business intelligence needs.

Technical Analyst

Sungard EBS

March 2006 to July 2006

- Performed MS SQL Server database support and development tasks for production DTS tasks and backups for Application Service Provider clients.
- DTS development using T-SQL stored procedures to load log files generated by Web and phone applications into SQL Server 2000 database and to archive new records to history tables.
- Wrote T-SQL and PL/SQL procedures and scripts to identify and resolve data integrity and accuracy issues.
- Assisted with preparation of functional design documents for TIAA-CREF Plan Sponsor Services project.
- Tested various OmniPlus extract and load functions as well as Pyramid Workflow remittance processing application.

Web Development and Support

Wells Fargo Institutional Trust Services Technology

August 2004 to April 2005

- Developed .ASP forms for XML Post to Secure Document Delivery Web Services.

- Responsible for monitoring effects of upgrades and configuration changes to Retirement Portal Web Suite.
- Provided support of IAP Workflow application and assisted with customization and integration.
- Development and Implementation of Pyramid web activity reporting application.
- Responsible for analyzing application error and history logs as well as packet logs to determine who has ownership of the problem.
- Work with Pyramid Web Application Vendors to resolve issues and request code fixes in a timely manner.

Applications Systems Analyst

ScriptPro Pharmacy Automation

May 2003 to April 2004

- Develop and optimize complex MS SQL Server stored procedures and Crystal Reports for Pharmacy clients using T-SQL.
- Work with Pharmacy managers to create reports that address their Business Intelligence needs as well as educating them about the reports they are viewing.
- Provide SQL Server database support to internal and over 2000 external clients.

SQL/Crystal Reports Developer

Georgia Pacific

January 2001 to November 2001

- Responsible for new development and support of VB, SQL Server, Crystal Reports 7.0 through 8.5 reporting application used by business units to regulate Georgia Pacific's international pulp production.
- Responsible for Conversion and performance tuning of existing Crystal Reports and SQL Server stored procedures to new reporting application.
- Programmed SQL Server stored procedures for datawarehouse to meet business requirements of internal clients.
- Debugged DTS tasks that failed in the nightly cycle.
- Converted VBA code from MS Access and Excel applications over to SQL Server queries and Crystal Reports 8.5.
- Involved in project upgrading Reporting applications which involved over 600 reports and 300 SQL stored procedures to be modified and thoroughly tested parallel to previous application.

Technical Analyst

Pyramid Digital Solutions, LLC (Inc. 500)

April 2000 to January 2001

- Wrote HTML and developed suite of forms used by Planoffice to submit transactions to Omniplus.
- Lead weekly testing efforts of new enhancements and fixes to the Pyramid Web and Phone Suite of Products as well as Planconvert.
- Worked with Omniplus System to ensure that our applications were displaying what was on the host.
- Developed and web enabled Crystal Reports from Planoffice and Beta PlanWarehouse SQL databases.
- Developed MS Access reporting tool to import and report Web and Phone activity to all our clients using VBA.

Information Systems Support Analyst/Manager Web Implementation

United Missouri Bank

April 2000 to January 2001

- Support of Pyramid Web Suite interfacing with OmniPlan Recordkeeping system.
- Developed Reports for the Financial Analysts and Vice Presidents of the

Retirement Division.

- Automated process of uploading payroll and indicative data to OmniPlan recordkeeping system using PlanConvert ETL tool.
- Managed team of 3 Support Liaison's responsible for coding of GDP files configured to meet plan requirements.

Reinsurance Data Analyst

TransAmerica Occidental Life Insurance Co

January 1997 to January 1999

- Assisted with the development of a new System to Administer Reinsurance at TransAmerica.
- Assisted with conversion of Reinsurance plans to the new system.
- Responsible for managing legacy conversion data and reporting on it.

Big Data Engineer

Focused on Pivotal Big Data Suite implementations, working closely with vendors and clients to design and implement big data solutions. Provides training and mentoring to teams and clients on Pivotal solutions including Greenplum, Postgres for Kubernetes and GemfireXD. Completed benchmarking initiatives using YCSB and

TPC-DS methodologies to measure and compare Greenplum scalability and performance.

Experience deploying, developing and running Redshift and Greenplum clusters.

Senior Software Engineer (Greenplum)

- Responsible for Greenplum DCA Database Production Support.
- Greenplum database security, roles, groups and object permissions.
- Attunity Replicate configuration, development, support to move data from multiple sources into Greenplum and Hadoop.
- Greenplum Subject matter expert working with development teams to recommend best practices and resolve issues.
- Performance tuning and architecture, Pivotal VRP troubleshooting.

Technical Analyst

Pyramid Digital Solutions, LLC (Inc. 500)

- Expert level Crystal Reports 8.5 development from SQL Server 2000 database.
- SQL Server 7.0 and 2000 development and support using stored procedures and Data Transformation Services.
- ETL development in SQL Server 2000 using XML extracts from OmniPlus for data flow projects.
- Responsible for implementation and support of Pyramid web suite interfacing with OmniPlus and OmniPlan systems to clients in the Financial Services Industry.
- Responsible for support and Quality Assurance testing of PlanOffice small Plan Administration application and PlanConvert and PlanTransmit desktop and web-based data conversion applications.
- Work on client enhancements coding configuration files to meet client business requirements.

Education

Bachelor of Science in Business Administration

The University Of Kansas

December 2025 to December 2025

College

December 1999 to December 1999

Johnson County Community

January 1996 to December 1996

Skills

- GCP Certified Cloud Database Engineer, AWS and GCP cloud architect with data ingestion & processing experience. Secure data at rest and in motion.
- Extensive experience using python,perl and bash to extract and transform data from source databases (Oracle,MSSQL,PostgreSQL,MySQL) and load to Greenplum using gpload/gpfdist in Big Data environments. (Internet advertising and Financial Services).
- Expert at data validation and data monitoring frameworks using ETL technologies.
- 10+ years expert Oracle and MSSQL development experience.
- Nvidia technical curriculum.
- Greenplum DB MPP architecture and development expert. Partitioning
- functions
- ETL
- ELT
- PGSQL
- Installation
- upgrades
- migrations.
- High Availability Postgres on Kubernetes (Upgrade, migration, automation, training)