

Jon Tavernier

312-623-8660

jon.tavernier@outlook.com

jontav.com

Summary

I am an IT professional who enjoys working in a variety of areas and most notably these:

- Designing, building, documenting, and implementing scalable data solutions.
- Efficiently extracting, integrating, and adding value to terabytes of complex data from many different sources.
- Enhancing existing systems, exploring technology, and applying new tools to difficult problems.

Experience

Raise.com, Chicago, IL, January 2017 – Present

Senior Data Warehouse Developer

- Partner with Data Scientists and Data Analysts to better understand business needs and data in order to develop easier-to-use, integrated data sets particularly those focused on knowing our supply, demand, purchases, buyers, sellers, web and mobile sessions, transactional and campaign email messages, etc.
- Helped replace a legacy data warehouse solution by designing, developing, and implementing a new data warehouse in Google BigQuery. This effort included the conceptual, logical, and physical designs of denormalized tables, which drive most of our self-serve analytical capabilities in Looker.
- Acquire data from companies such as Adjust, Desk.com, Salesforce, Algolia, Google Analytics, Sailthru, Linkshare, and Promoter by interacting with their REST APIs, batch exports, client libraries, etc.
- Develop data workflows in Apache Airflow and Python 3.6 to extract, load, and transform both batch and streaming data sets.
- Investigate production issues such as zombie processes spawned by Docker containers in Kubernetes, stuck Apache Airflow DAGs, missing vendor data, data quality concerns, slow queries, high CPU usage, etc.
- Identify business and technical needs, short-list solutions, and create proof-of-concepts for technologies.
- Participate in the Agile process including sprint planning, backlog refinement, and daily standups.
- Technical environment: Google BigQuery, SQL, Docker, Kubernetes, Helm, Jenkins, Apache Airflow 1.8, Python 3.6, bash/shell scripting, git, GitHub, Slack, Apache Kafka, MySQL 5.6, PostgreSQL 9.6, Amazon Web Services (AWS), Google Cloud Platform (GCP), Jira, Clubhouse, and Slack amongst others.

Allscripts, Chicago, IL, April 2016 – January 2017

Expert Software Engineer

- Lead and supported the Allscripts Care Management and Care Director SQL Server data warehouse environments, its customers, real-time reporting, analytical queries, and data loading processes.
- Collaborated with internal Business Analysts and external customers to define requirements for data products such as data marts, SQL Server Reporting Services reports, and data extracts.
- Investigated data bugs, proposed workarounds, prioritized fixes, and developed permanent solutions.
- Developed utilities in Python and C# to aid troubleshooting efforts and reduce development time.

Networked Insights, Chicago, IL, January 2015 – April 2016

Senior Data Engineer, Architecture Team

- Oversaw our Pivotal Greenplum data warehouse environment, a massively parallel processing (MPP) shared-nothing database technology, including its ETL, data architecture, storage, function coding, and availability.
- Designed, built, loaded, and maintained de-normalized, distributed, and partitioned data structures.
- Enhanced and created over 20 PL/pgSQL analytical functions used by our customer-facing web application.
- Aligned team deployment process with that used and supported by other groups within the company.

- Created Google BigQuery ETL logic for incrementally extracting data from terabytes of JSON documents, transforming it into smaller relational data sets, and then loading the results into append-only tables.
- Investigated data technologies such as AWS Redshift, Azure Data Warehouse, ScaleDB, MySQL, and PostgreSQL.

Northwestern University: Northwestern Medicine EDW, Chicago, IL, April 2009 – January 2015

Chief Data Architect and Manager of Source System Loads, July 2012 – Jan. 2015

- Managed the nightly ETL processes that acquired data from over 100 source systems representing dozens of storage technologies into the EDW environment, which required frequent collaboration with other teams.
- Planned and developed data structures in a 20+ terabyte Microsoft SQL Server 2012 environment aimed at integrating and de-duplicating data from dozens of clinical applications such as Epic, Cerner, and Athena.
- Created, researched, and encouraged best practices in information architecture, SQL Server Integration Services (SSIS) ETL, SQL query optimization, data materialization, design reviews, team processes, and troubleshooting.
- Interviewed and evaluated candidates for Data Architect, Data Warehousing Specialist, and Poweruser roles.
- Managed the migration of 157 SQL Server Agent jobs to a new server and established owners for all jobs.

Data Architect, April 2009 - June 2012

- Developed a Cerner inpatient vitals data mart standardizing 100+ million rows of data over ten years.
- Coded SQL Server CLR C# functions for medians, regular expression matches, and ordered string aggregation.
- Extracted, transformed, and loaded (ETL) data using SSIS from many sources stored in a variety of databases such as Oracle, SQL Server, PostgreSQL, Informix, and files such as XML, CSV, Access, Excel, and text.

Northwestern Medicine: Northwestern Medical Group, Chicago, IL, January 2007 – April 2009

Application Programmer Analyst II, Clinical Information Systems

- Acted as liaison to the Division of Cardiology's physicians, nurses, and professional staff incorporating business and clinical requirements into the Epic electronic medical record (EMR) and other health care applications.
- Extended functionality of the Epic EMR by proposing, designing, and coding 55+ development projects in Intersystems Cache' (MUMPS) many of which improved the integration between Epic and other applications.
- Managed Cardiology's echocardiogram application (Philips Xcelera) including its day-to-day operation, upgrades, enhancements, test environment, and vendor relationship including contract reviews.

Epic Systems Corporation, Madison, WI, June 2002 to June 2006

Technical Services, MyChart Application

- Supported large health care organizations' (e.g. Fairview, Kaiser Permanente) IT and business office professional staff with installations of MyChart, Epic's patient portal web application.
- Identified, captured, and analyzed workflow business requirements used to develop specifications for technical solutions utilizing Epic Programming Points, Visual Basic, ASP, JavaScript, XML, HTML, and CSS.
- Worked closely with Intersystems Cache, a NoSQL database management system, and Epic Chronicles.
- Reduced the run time of a large batch process to under five hours from over ten hours.

Education & Certifications

- Fellow, Association of American Medical Colleges, Group on Information Resources Leadership Institute, 2014
- Business Analyst, Certification, Northwestern University, School of Continuing Studies, Chicago, IL, 2013
- Computer Information Systems, BS, Indiana University, Kelley School of Business, Bloomington, IN, 2002