

Jon Tavernier Phone: 312-623-8660 Email: jon.tavernier@outlook.com Website: jontav.com

Summary

I am an IT professional with over 14 years of experience. I enjoy data related work such as:

- Designing, building, documenting, and implementing scalable data solutions including architecture and ETL.
- 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

Allscripts, Chicago, IL, April 2016 – Present

Expert Software Engineer

- Lead and support the Allscripts Care Management and Care Director SQL Server data warehouse environments, its customers, real-time reporting, analytical queries, and data loading processes.
- Collaborate 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.
- Investigate data bugs, propose workarounds, prioritize fixes, and develop permanent solutions.
- Manage team (two developers, two QA roles) efforts including Sprints and assignment of User Stories.
- Develop 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