

Douglas Swehla – Database Developer

Mid-career professional with 9+ years developing for enterprise-level database systems and related software, and over 20 years with desktop DB systems. Proficient with Windows & Mac operating systems, office suites, and shell scripting, competent with Linux and web technologies (HTML/CSS/UI), familiar with object-oriented theory and basic practice. Wide variety of experience: military, manufacturing, research/academia, consulting, banking, marketing, entertainment.

Relevant Experience

At **Wonderful Orchards**, an agricultural company, I develop data sources (custom SQL queries) for Tableau reports based on Oracle E-Business Suite (EBS) and company-built databases.

At **Sony Pictures Entertainment**, I worked with an Agile development team to maintain and improve the Sales team's Revenue Pipeline Management (RPM) system. The RPM system is a Java web application backed by an Oracle database that tracks the sale of movie and TV series exhibition rights, along with related financial data (April 2019 to May 2020).

- Reviewed existing database code and structures to identify improvement opportunities. Worked with management, development, DevOps, and DBA teams to prioritize and implement recommended changes.
- Did performance tuning, bug fixes, and refactoring of existing PL/SQL code, and wrote new code as needed.
- Maintained SQL Server data warehouse (relational DB, SSIS packages, and SSAS instance) fed by Oracle DB.
- Mentored junior (full stack, but primarily Java) developers in writing more performant SQL queries.

At **Streamlyne**, a software consulting company, I worked on the initial phase of a data consolidation project for the Provost's Office at the University of Southern California (USC). The university has many largely independent systems for tracking student and personnel data. The project aims to provide better business intelligence and decision-making support to the university administration by integrating data from these systems (September 2018 to January 2019).

- Documented Provost-owned and external data system content, function, and other metadata.
- Created diagrams describing current data ingestion and identity resolution processes in extant Provost system.
- Coded proof-of-concept stored procedure demonstrating utility of project for presentation to senior staff.
- Developed template for data dictionary capturing key metadata from Provost and other systems.

At **Valid USA**, a marketing software company, I used data analysis and systems automation to support clients' marketing efforts, especially contact list generation and post-campaign response analysis. My main client had hundreds of stores and a dataset comprising tens of millions of customer records (June 2017 to September 2018).

- Analyzed business requirements documents in consultation with client-facing sales team, wrote new supporting stored procedures, and set up related automation, e.g., generate, zip, and post a data file.
- Maintained existing T-SQL code, and automated tasks using job scheduling software and scripting languages.
- Worked with client team to define post-campaign performance analysis criteria, then developed and automated related reporting using T-SQL, Excel, VBA, Python, and other software.

At **US Bank**, I helped develop a SQL Server-backed scorecard system for objectively rating and improving the performance of over 2,000 production-oriented employees. As the primary back end developer, I wrote the project's T-SQL code, and worked closely with supporting business units (August 2015 to December 2016).

- Scorecard system gathers and analyzes employee activity information, and presents a monthly report containing tabular and graphical data comparing each employee's performance to management goals.
- Wrote T-SQL data analysis queries, and created supporting tables, views, and stored procedures.
- Developed drafts of application interface, including charts, graphs, and reports, using MS Access and SSRS.

At **A-Mark Precious Metals**, I ported data from a legacy MS Excel system into SQL Server, using MS Access as a front end. The project required reconciling historical, hand-entered transaction data with current inventory and related values. (May 2015 to July 2015)

At **O'Neil Data Systems**, a data-driven publishing company, I oversaw the automated creation of print files from client data sets processed via SSIS packages and in-house software. (April 2013 to February 2015)

- Wrote ad hoc T-SQL queries to research status of scheduled jobs, and to troubleshoot issues with same.
- Wrote views and stored procedures as needed. Wrote T-SQL scripts for use with command-line tools.
- Maintained security of HIPAA-protected client data; the client base was largely insurance providers.

At **Larry Walker Associates**, an environmental engineering and consulting firm, I had a mix of administrative and technical development and maintenance tasks. (December 2011 to November 2012)

- Built or modified various small MS Access and MS Excel databases for data analysis and reporting.
- Set up and arranged access to MS SharePoint databases for collaboration with clients.

At the **Georgia Tech NeuroLab**, a collaboration of neuroscience research groups in the Biomedical Engineering department, I worked as an Information Manager and Lab Manager. (June 2005 to May 2011)

- Designed HIPAA-mandated progress reports generated from tabular data, using pivot tables.
- Trained lab personnel on use of various data collection, analysis, and reporting tools that I developed.
- Worked with undergraduate research assistant to analyze data using Matlab functions and graphs.

For **Spectrum Entertainment**, a small business providing music, photography, and catering services for events, I was a freelance database developer and administrator. (First project June 2009, second May to Nov 2011)

- Ported the business-critical company database from Access 97 to 2007, resolving data integrity issues in the process, and allowing them to finally (in 2009) upgrade from Windows 2000 to XP and Vista.
- Worked with owner to redefine the payroll process, focusing on the sales commission and bonus calculations, and implemented those changes in the database. They are still in use over eight years later.

As a temp at **Nestle-Purina**, a pet food factory, I designed and built an MS Access application to help Human Resources identify and document abuses of the paid leave and overtime systems. (April 2004 to October 2004)

- The application consolidated existing spreadsheet data, connected to a SQL Server back end, offered user-friendly navigation, and included forms and reports for entering and analyzing timesheet data.
- Worked with staff to identify project requirements, and trained them on using the finished product.

For the **1st Special Forces Group**, I was the Personnel Security Manager & Security Office Senior Analyst, (2001-2003)

- Learned MS Access, then designed and built database to track personnel security clearance information.
- Analyzed data to identify gaps in unit readiness due to expired clearance background investigations.
- Advised unit leadership on plan to restore readiness and prevent problem from recurring.

Education

BS in Liberal Studies, Excelsior College, Albany, NY, 2002 (Completed in two years, while on active duty.)