Seattle, Washington, USA linkedin.com/in/ncosgray

ETL/Database Developer

Proven track record of excellence in database development, data management, and business intelligence.

"Truly exemplary work." – Jim, IT Director

Technical Skills

- Microsoft SQL Server, Azure SQL Database
- T-SQL (queries, views, stored procedures, etc.)
- SQL Server Integration Services (SSIS)
- SQL Server Reporting Services (SSRS)
- Power BI, Tableau
- C#.NET, VB.NET, MVC, Entity Framework
- PowerShell

Professional Experience

Analyst/Developer

November 2015 - Present

The Seattle Public Library

Seattle, WA

Design and implement library data warehouse

- Work with stakeholders to determine data and reporting needs
- Work with data owners to identify sources and understand contexts
- Build ETL processes using SSIS, T-SQL, C#, and PowerShell
- Build enterprise reports, dashboards, and KPIs using SSRS
- Work with business analysts to expose data to Tableau and Excel

Web developer for internal and external web applications and web services

- ASP.NET (VB) online payments web application
- ASP.NET (C#, MVC, Entity Framework, Bootstrap) volunteer data entry tool

Accomplishments:

- Proposed, designed, and implemented self-service reporting for Library staff
- Built 35+ end-to-end ETL processes and 80+ SSRS reports in 3 years
- Grew data warehouse from 0 to 200GB (over 300 million rows) in 3 years
- Published and continually refreshed 4 datasets for Seattle Open Data Initiative
- Project managed migration of Horizon ILS from Sybase ASE to SQL Server
- Implemented donation feature in online payments web application

Analyst/Developer

IT Services - Amalga Data Warehouse

May 2014 - November 2015

UW Medicine, Seattle, WA

SQL developer for CIP V3 entity data pipeline

- Loaded datasets from many sources and combine into V3 system format
- Designed and implemented data pipeline, error handling, and logging
- Architected custom SSIS package, stored procedures, and table structures

Authored reports using SQL, SSRS and SSIS, and the Amalga system

- Primary developer for institutional metrics dashboards ("Patients Are First")
- Presented new reports and visualizations to UWM leadership
- Built reports (scheduled and on-demand) per requirements of UWM end users Accomplishments:
- Wrote modular stored procedures for reuse by many data pipeline data sources
- Devised method to improve data pipeline by loading only when updates detected
- Wrote C# data comparison application for use during system migration

Professional Experience, continued

Senior Systems Analyst

June 2008 - May 2014

The Seattle Public Library
Seattle, WA

Managed and supported Integrated Library System (ILS)

- SirsiDynix Horizon ILS with SIP2-based TechLogic ACS self-checkout
- Worked with staff, librarians, and vendors to troubleshoot and solve ILS issues
- Created reports using SQL, VBScript, and Excel
- Planned and implemented software/hardware upgrades and migrations

ASP.NET web application and web service developer

- Primary developer of PayPal-based online fine/fee payment system
- Wrote 3M/SirsiDynix SIP2 API library for .NET applications
- Built a suite of .NET web services for retrieving data from library systems
- Developed web tool used by librarians to track reference questions

Database administrator for Sybase, SQL Server, Access, and MySQL databases Accomplishments:

- Enabled library patrons to pay fines online, totaling over \$50,000 per month
- Automated over 100 scheduled reports saving staff thousands of hours of time
- Created ILS database mirroring scheme for backup, testing, and training

Senior Computer Specialist Center for Studies in Demography and Ecology June 2003 - May 2008 University of Washington, Seattle, WA

System administrator for academic research center

- Maintained 1,000-user Active Directory domain and 15 terminal servers
- Participated in Unix infrastructure support, including Apache and MySQL

Assisted with supervision of student workers

Web programming projects in PHP and Perl

- Account request forms and backend request queue management system
- Workshop registration form with roster/attendance tools
- Data extraction tool for sharing specialized research dataset

System and Database Administrator March 2000 - May 2003

Department of Medical Genetics Indiana University, Indianapolis, IN

Maintained Solaris servers, NIS+ namespace, statistical/genetic analysis software

Database support for research projects

- Developed MS Access databases with forms-based front ends
- Took a leading role in data management for variety of genetic research projects

Education

B.A., Computer Science

Indiana University, Bloomington, IN

Training

Microsoft MOC coursework: .NET Development, SQL Server, Data Warehousing

Recent conferences: SQL PASS Summit, Google I/O

Certifications

Microsoft Certified Professional (MCP)

Open Source Projects Developer of "Cuppa" tea timer apps for macOS, iOS, and Android

(github.com/ncosgray)