

Systems Analyst/Developer

Proven track record of excellence in database development, data management, and software development.
“Truly exemplary work.” – Jim, IT Director, The Seattle Public Library

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

Professional Experience **Analyst/Developer** **The Seattle Public Library**
2015–Present Seattle, WA

Design and implement a library operations 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

ASP.NET web developer for internal and external web applications and web services

- Library card registration backend API (C# Web API)
- Patron authentication supporting various industry standard APIs (C# Web API)

Implement and maintain integrations with the Library’s circulation system

- Including: e-resource vendors, hold pickup lockers, checkin/checkout software

Accomplishments:

- Proposed, designed, and implemented self-service reporting for library staff
- Built 50+ end-to-end ETL processes and 150+ SSRS reports
- Grew data warehouse from zero to 1 billion rows
- Published and refreshed four datasets for the Seattle Open Data Initiative
- Project managed migration of the circulation database from Sybase to SQL Server
- Cleared \$2.6 million of old overdue fines for 230,000 Seattle library patrons
- Implemented a new registration backend with automated identity verification

Analyst/Developer **IT Services, Amalga Data Warehouse**
2014–2015 UW Medicine, Seattle, WA

SQL developer for the Caradigm V3 entity data pipeline

- Designed and implemented data flows, error handling, and logging
- Architected custom SSIS packages, stored procedures, and table structures

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

- Primary developer for “Patients Are First” institutional metrics dashboards
- Presented new reports and visualizations to UW Medicine leadership

Accomplishments:

- Wrote modular stored procedures for reuse by many data pipeline data sources
- Devised a method to improve performance by loading only when updates detected
- Wrote a C# data comparison application for use during system migration

