

Neil J. Holcombe

United States | njholcombe.com

Professional Summary

Results-driven Data Engineer specializing in designing, developing, and maintaining data warehouses, with experience integrating data from data lakes and diverse sources. Skilled in Informatica, Talend, SSIS SQL (Oracle, SQL Server, HiveQL, Postgres), Python, REST/SOAP APIs, AWS, and Linux environments. Quick to learn and adapt to new technologies, with a proven ability to optimize ETL performance, mentor teams, and drive process automation. Experienced in Agile environments and managing cross-functional data initiatives.

Education

Bachelor Degree in Computer Science, Minor in CMIS
Southern Illinois University Edwardsville – Dec 2006

Associate Degree in General Science (Honors)
Parkland Community College – Aug 2003

Certifications and Licenses

- AWS Certified Data Engineer – Associate (In Progress – Expected Completion 07/2026)
- Certified Scrum Master (CSM)
- PCAP – Certified Associate in Python Programming
- Stock Trading Professional

Projects

- AWS Datalake & Automation Project (Personal/Public)
 - https://github.com/njholcombe/public_architecture/tree/main/lakehouse
 - Designed an AWS lakehouse framework featuring reusable metadata-driven Data Model and Job Factories that automatically generate data models and ETL pipelines from source definitions. Built with Python, Lambda, DynamoDB, Step Functions, Glue, EventBridge, and Amazon S3, the framework supports batch and Kinesis streaming while accelerating onboarding of new data sources with minimal custom development.
- PyOpAnalytics (Personal/Public)
 - https://github.com/njholcombe/public_architecture/tree/main/PyOpAnalytics
 - Python desktop app for ingesting and analyzing datasets. Connects to REST APIs, loads data into SQLite, and lets users create tables, explore records, inspect schemas, and define relationships through an interactive interface.

Professional Experience

Enterprise Data Engineer | US Cellular, Chicago, IL | Sep 2021 – Aug 2025

- Designed, developed, and deployed ETL pipelines using Talend, Informatica, SQL, and Python to integrate data into HDFS and relational databases while ensuring performance and data quality.
- Optimized large-scale data processing by writing complex HiveQL queries for aggregation and transformation of datasets in HDFS, improving distributed processing efficiency and supporting downstream analytics.
- Maintained and enhanced data workflows to support enterprise reporting and analytics, leveraging best practices in ETL design and performance tuning.
- Led intake and code review processes for enterprise-wide data initiatives.
- Improved job efficiency through process automation and mentoring junior developers.
- Supported critical systems in an on-call rotation, enhancing data pipeline reliability.
- Development environment utilized scrum and CI/CD (Git, Jenkins, Jfrog)

ETL Data Engineer | SmartStream Technologies, Jacksonville, FL | Jun 2021 – Sep 2021

- Built and maintained Talend ETL processes for financial data systems.

Lead ETL Developer (Contract) | Client Resources, Inc., Omaha, NE | Aug 2018 – Jul 2020

- Developed and optimized ETL workflows in Informatica for insurance and finance clients.
- Automated metadata generation with C#
- Managed job scheduling via Control-M and supported CI/CD workflows.

Customer Integration Consultant | FedEx Services, San Ramon, CA | Apr 2016 – Oct 2017

- Integrated data between FedEx shipping platforms and external systems using VBA, SQL, and internal tools.
- Installed, configured, and supported FedEx shipping software including FedEx Web Services and FSMS.
- Provided customer consultation on FedEx and third-party shipping solutions.

Data Warehouse Developer (Remote) | Biz-Telligence LLC, Lake Worth, FL | Mar 2014 – Jul 2015

- Led a data warehouse upgrade project for Exterran Corporation.
- Developed Informatica mappings, workflows, and data load processes.
- Automated metadata upgrades using PL/SQL and performed SQL tuning for large data sets.

Senior Software Support Engineer | Noetix Corporation, Redmond, WA | Jun 2010 – Feb 2014

- Customized ETL solutions using Informatica, PL/SQL, and T-SQL.
- Supported C#-based BI tools and tuned SQL performance for enterprise environments.
- Contributed to data warehouse upgrades for clients including Arvin Meritor.

Software Developer/Data Warehouse Developer | Jaros Technologies, Granite City, IL | Jul 2005 – Jun 2010

- Refined and optimized an existing meta data driven data warehouse and integration product using Informatica, PL/SQL, VB.NET.
- Developed the delete detection module for the Jaros Analytics product
- Developed Fixed Assets, Project Accounting, and the OPM modules for the Jaros Analytics product.
- Developed Oracle objects (tables, views, triggers, procedures, packages), developed cubes, and performed system integration's
- Delivered BI solutions for GE T&D, Infocus, Moneygram, and Spartech, including Cognos server setups.
- Installed and configured Informatica servers

Core Competencies

- **ETL & Orchestration:** Informatica (7–10.4.1), Talend, SSIS, Control-M, IBM Workload Scheduler
- **Programming:** Python, SQL, PL/SQL, T-SQL, Bash, C#, C++
- **Databases:** Oracle, SQL Server, DB2, Teradata
- **Cloud:** AWS (S3, Lambda, Step Functions, DynamoDB), Personal Lakehouse Architecture
- **DevOps & Tools:** GitHub, Jenkins, JFrog, Visual Studio, PyCharm, PagerDuty, Remedy
- **Data Architecture:** Data Modeling (Erwin), Metadata-Driven Design, Data Marts