

Timothy E. Sellwood

sellwood.timm@gmail.com | +1 (803) 290-3477 | US Citizen | Alachua, FL
Systems Analysis | Data Engineering | AI Automation

Professional Summary

Systems Analyst with experience supporting enterprise ERP systems, translating business requirements into technical solutions, troubleshooting operational systems, and driving workflow improvements in business environments. Background includes ERP implementation support, SQL-based analysis, healthcare compliance knowledge through CPC certification, and development of analytics and AI-assisted workflow solutions.

Relevant Skills

- Systems Analysis
- ERP Systems (Microsoft Dynamics 365)
- SQL / T-SQL / Data Analysis
- Workflow Automation
- Process Improvement
- Vendor & Stakeholder Coordination
- User Acceptance Testing (UAT)
- Technical Documentation & SOP Support
- AI-Assisted Workflow Solutions
- SharePoint / Microsoft Ecosystem
- Cross-Functional Communication

Work Experience

ERP Systems Analyst – Primex Plastics Corporation

March 2023 – April 2024

- Supported implementation, testing, and optimization of Microsoft Dynamics 365 Operations and Supply Chain modules across cross-functional business teams.
- Gathered business requirements from stakeholders and translated them into technical specifications, workflows, and business process models (BPMs).
- Coordinated troubleshooting and issue resolution for ERP, network, hardware, and software systems to maintain operational continuity.
- Performed ad-hoc data analysis and reporting using T-SQL and Excel to support operational and business decision-making.
- Assisted with user acceptance testing (UAT), system validation, and process improvement initiatives during ERP implementation activities.

Data Engineer – Nationwide Medical

Dec 2025 – Feb 2026

- Supported healthcare data integration, transformation, and reporting workflows within a regulated medical environment.
- Developed and validated Snowflake SQL-based data pipelines and data quality processes to support operational reporting and analytics.
- Partnered with cross-functional business and technical stakeholders to improve workflow automation and reporting solutions using SharePoint and Power Automate.
- Assisted with operational troubleshooting, form workflow validation, and business process support utilizing Jotform-based intake and data collection systems.

Procurement Systems Support Specialist – Liberty University

November 2022 – January 2023

- Supported administration of the JAEGGER Procure-to-Pay platform.
- Translated business requirements into technical reporting requirements and operational workflows.
- Performed system support, data validation, and W-2 documentation processing activities.

Projects

Enterprise Data Platform & Operational Analytics Environment (2026)

- Designed and implemented a multi-domain analytics platform integrating ERP, HR, Clinical Operations, HubSpot CRM, SharePoint, Snowflake, Azure Data Lake Storage Gen2, Power BI, Microsoft Graph, and Airflow orchestration.
- Built end-to-end data pipelines using Python, Snowflake SQL, dbt, Azure ADLS Gen2, SharePoint, and Power BI to ingest, transform, model, monitor, and activate operational data across finance, workforce, clinical, and CRM domains.
- Developed enterprise reporting architecture consisting of RAW, STAGING, CORE, and MART reporting layers supporting executive reporting, operational analytics, data quality monitoring, workflow automation, and business performance measurement.
- Implemented reverse ETL workflows from Snowflake into SharePoint operational workspaces using Microsoft Graph and role-based security controls to support operational decision-making and business process execution.
- Designed monitoring, auditing, backup validation, Entra ID integration, security hardening, and governance processes supporting enterprise-scale reporting, workflow management, and operational analytics.
- Portfolio: <https://teemails.com>

Clinical Donor Workflow & Quality Management Platform (2026)

- Designed and developed a healthcare workflow platform simulating donor intake, clinical review, QA investigations, CAPA management, and operational escalation processes in a regulated environment.
- Built role-based operational dashboards, workflow queues, SLA monitoring, audit logging, and notification systems using Python, PostgreSQL, FastAPI, and Streamlit.
- Implemented workflow routing, approval processes, escalation tracking, and audit trail concepts aligned with healthcare quality management system (QMS) practices.
- Developed operational reporting and workflow analytics dashboards to support donor screening, exception management, workload visibility, and process monitoring.

Cloud Analytics Data Pipelines (2026)

- Designed and implemented batch data ingestion pipelines from Azure ADLS Gen 2 into Snowflake using Python, Snowflake SQL, and Airflow.
- Developed Bronze-Silver-Gold data models to organize raw, transformed, and analytics-ready datasets for dashboard reporting.

Chat-to-Calendar AI Agent (2025)

- Built an AI-powered calendar assistant using Python FastAPI, PostgreSQL, React/TypeScript, and local LLM workflows.

ETL and Machine Learning Senior Project – Liberty University (2022)

- Performed ETL of IoT sensor data into SQL Server historian systems, Grafana HMI dashboards, and KNIME machine learning workflows.
- Presented analytical results to both technical and non-technical stakeholders.

Education

Bachelor of Science in Computer Science – Liberty University

Minor in Information Security | Graduated August 2022

Certifications & Awards

- Certified Professional Coder (CPC) – AAPC (2024)
- Boy Scouts of America – Eagle Scout (2017)