

Peter Luro

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Education: B.S. Computer Science, **Worcester Polytechnic Institute (WPI)**

2019

— OBJECTIVE —

Software Engineer specializing in Python-driven financial systems and data platforms, focused on building telemetry, analytics, and experimentation frameworks that accelerate product insight and investment decision-making in cloud environments.

— WORK EXPERIENCE & PROJECTS —

- Software Engineer, Talcott Resolution, Hartford CT *June 2023 - Present*
 - Designed and owned **Python/Pandas ingestion pipelines** for complex financial datasets, normalizing **XML, JSON, and irregular Excel files** (pivoted, transposed, multi-sheet) into analytics ready relational schemas.
 - Used **Pandas** as a validation and reconciliation layer for financial data loads, implementing column level schema enforcement, **dtype coercion, nullability rules**, and business validations (e.g., position/trade consistency, identifier completeness, stale valuation detection) prior to database writes.
 - Built ingestion and validation pipelines designed to handle inconsistent, **vendor-supplied financial data** across formats and schemas, prioritizing correctness, explainability, and repeatability over one off fixes.
 - Built a **config-driven Python file ingestion framework** where parsing logic, schemas, and transformations were defined via metadata rather than hardcoded assumptions, enabling rapid onboarding of new data sources.
 - Developed a **Pandas-based data quality and reconciliation system** to detect discrepancies across independently sourced **financial datasets** (positions, valuations, benchmarks), identifying **schema drift, missing identifiers, stale values, & calculation inconsistencies**.
 - Automated nightly hedging **ETL workflows** integrating Python pipelines with **Oracle and SQL Server**, orchestrated via AutoSys and Azure Batch for reliable, auditable processing.
 - Led **Oracle-to-Azure database migration** efforts, including credential management, role recreation, and Python-based validation scripts to ensure data parity between legacy and cloud environments.
- Software Engineer, Optum TDP, Boston MA *January 2020 - June 2023*
 - Built Python ETL pipelines to preprocess large, unstructured datasets (audio files, metadata) for downstream analytics and model training.
 - Led data segmentation and normalization strategies to improve processing efficiency and data quality.
 - Automated batch workflows and monitoring using Jenkins and Azure tooling.

— ADDITIONAL PROJECTS —

- Stock Trading Application *2019 - 2023*

Developed personal Python scripts to monitor markets and market data monitoring in GCP using crontab.

 - Legacy repo - collection of market Portfolio analytics scripting: <https://github.com/paluro567/trade/tree/main>.
 - Scheduled **Revised_discord.py** for each market day to monitor breakouts.

— SKILLS —

- **Languages:** Python (7 yrs, Pandas, NumPy), SQL (6 yrs), Java (4 yrs), JavaScript (4 yrs), React (4 yrs)
- **Cloud & Tools:** AutoSys, Azure (Batch, Databricks, DevOps, Portal), Docker, GCP, Jenkins, Kubernetes, Unix/Linux (CLI, crontab, shell scripting)