

Kayla Sermini

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SUMMARY

Results-driven Data Engineer with a track record of delivering fast, scalable solutions in high-impact FinTech environments. I designed and built a high-performance, low code ETL framework powered by a metadata driven architecture, dynamic factory generation, and event based execution. The system enables rapid source onboarding without modifying core logic and is built for portability, extensibility, and configuration based orchestration.

I led a CI/CD transformation across five tech stacks by implementing automated semantic versioning, artifact promotion, and branching strategies using Azure DevOps. I thrive in fast paced environments and work effectively across Python, SQL, Java, and vendor toolchains to support production pipelines.

I move quickly while maintaining high quality standards and am known for building systems that are reproducible, auditable, and modular. I bring a strong sense of ownership, a willingness to learn fast, and a focus on driving meaningful business value through thoughtful engineering.

EXPERIENCE

Data Engineer

Western Alliance Bank

March 2024 - April 2025, Phoenix, Az

- Architected and led the development of a modular Python-based ETL framework for FCC screening systems. Enabled rapid onboarding of new data sources through YAML-driven configuration, significantly reducing development time and manual effort.
- Designed the system with a low-code/no-code approach that allowed business analysts and junior engineers to configure sources without changing code. Improved maintainability and made the solution portable across database platforms.
- Introduced a decoupled, event-driven batch processing model that supported daily ingestion of over 30 different data sources, streamlining delivery and increasing system reliability.
- Integrated the framework with Control-M to enable full orchestration and automated scheduling. Built centralized logging, dynamic error handling, and audit trail capabilities to strengthen compliance and speed up incident resolution.
- Developed a Python-based handshaking mechanism to onboard a new business line through BMO. Delivered the solution under tight deadlines and ensured alignment with regulatory and operational requirements.
- Led the adoption of CI/CD practices within the team using Azure DevOps. Introduced branching strategies and automated pipelines that improved release consistency and reduced deployment errors.
- Launched a documentation-first initiative and mentored team members on CI/CD, modern Python design, and SDLC principles. Helped improve engineering maturity and supported faster ramp-up for new contributors.

EDUCATION

Bachelor of Science Computer Information Science

Arizona State University • Tempe, AZ • 2024

- Capstone: Created a Flask-based budget management app with SQLAlchemy, Socket.IO, and Bootstrap. Led database integration, front-end modeling, and dashboard design.
- Global Tech Experience: Developed web applications using HTML, CSS, JavaScript; enhanced intercultural communication skills.

SKILLS

Languages & Frameworks: Python, Pyspark, Ansible, SQL, Java, C#, HTML, CSS, JavaScript

Tools & Platforms: Azure DevOps, Control-M, SonarQube, Databricks, Microsoft Power Apps

Concepts: CI/CD, Modular ETL Architecture, SDLC Best Practices, OOP, SOLID Principles, Dynamic Configurations, Financial Data Modeling

Certifications: Python and Statistics for Financial Analysis – Applied Python to financial time series data, investment performance metrics, and risk modeling. Practical Ethical Hacking. NSE 1 Network Security Associate
