Avery Alexander Rijos

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EDUCATION

New Jersey Institute of Technology - Newark, NJ

* Master’s Degree – Technical Project Management December 2023

Kean University *-* Union, NJ

* Bachelor’s Degree - Political Science, Minor in EconomicsMay 2020
  + Concentration – International Relations

HONORS AND AWARDS

Pi Sigma Alpha – Political Science Honors Society

PROFESSIONAL WORK EXPERIENCE

**PROMETHIVM - LLC**

**Founder & Principal Systems Architect**

* **At** The PROMETHIVM Lab, I operate as a Systems Engineer specializing in designing and governing contradiction-centric, neuro-symbolic architectures that metabolize ontological tension into structured, generative knowledge systems.
* **Rooted** in deep systems thinking, my work synthesizes symbolic reasoning, non-monotonic logic, and NLP-driven contradiction harvesting to architect recursive knowledge organisms that remain resilient and perpetually adaptive in the face of evolving complexity. I steward an integrated stack that fuses symbolic knowledge graphs, contradiction validation pipelines, and post-symbolic LLM expansions, ensuring that each module functions as an autonomous yet interdependent cell within a living dialectical engine.
* **Beyond** technical design, my expertise bridges requirements engineering, stakeholder orchestration, and systems integration — translating ambiguous problem spaces into precise, scalable designs that align human values with AI capabilities. I design modular contradiction interfaces, explainable validation engines, and architectures that maintain human-centered oversight while enabling robust human–AI collaboration

**Career Break - March 2024 – April 2025**

**Abbott Laboratories (Short-Term Contract) — January 2024 to March 2024**

**Sr. Operations Analyst – FP&A (with Solution Architecture focus)**

* **Designed** and optimized end-to-end financial reporting architecture for a global unit generating ~$45M in monthly revenue, building standardized pipelines for daily, weekly, and annual reporting that improved consistency, traceability, and scalability.
* **Integrated** disparate data sources (SAP, QAD, ISS, and internal systems) into a unified reporting framework, enhancing data quality and providing stakeholders with a single source of truth for strategic decision-making.
* **Developed** robust reconciliation and validation frameworks (variance, sensitivity, scenario analyses) to ensure financial data integrity, aligning technical workflows with business objectives.
* **Architected** reporting modules to clarify variances and business impacts, ensuring alignment with month-end close cycles and mitigating risks from currency fluctuations, intercompany transactions, and accrual adjustments.
* **Led** continuous process reengineering within the APOC FP&A domain, mapping and refining month-end close processes to reduce cycle times while maintaining data governance standards.
* **Created** reusable templates and modular reporting components, driving automation and freeing up analyst capacity for higher-value analytical work.

**Fiserv, Inc. (Full-Time) — June 2022 to March 2023**

**Sr. Business Operations Analyst – Project Portfolio Management (with Solution Architecture focus)**

* **Orchestrated** the architecture and governance of an $80M enterprise project portfolio, designing frameworks to move initiatives from intake through execution while ensuring alignment with enterprise architecture standards and strategic goals.
* **Defined** and enforced portfolio governance models, risk frameworks, and decision matrices that streamlined project pipelines and improved cost efficiency.
* **Facilitated** architectural planning sessions with multi-functional stakeholders, translating complex business requirements into actionable project scopes, roadmaps, and solution designs.**’**
* **Built** reporting solutions that delivered up to $30K in cash flow benefits per project, connecting financial modeling with actionable insights for resource allocation and portfolio optimization.

**Bank of New York Mellon (Short-Term Contract) — March 2022 to June 2022**

**Jr. Operations Analyst**

* **Designed** and executed reconciliation workflows that ensured the accuracy of trading ledgers across multiple financial products, integrating multi-currency transaction systems to maintain data integrity for trades exceeding $50M daily.
* **Developed** exception handling modules to rapidly resolve discrepancies, embedding systemic controls that strengthened the architecture of daily financial operations.
* **Acted** as a key liaison between trading desks and back-office systems, facilitating real-time issue resolution and minimizing business disruption through robust communication protocols.
* **Conducted** root cause analyses to identify systemic flaws in data and process flows, feeding insights back into workflow designs that reduced recurring exceptions and increased system reliability.
* **Enhanced** departmental control frameworks by automating daily reporting controls, ensuring compliance with regulatory standards and strengthening audit-readiness.

QUALIFICATIONS AND SKILLS

Core Systems & Architecture Skills

* **Systems Design & Workflow Optimization:** Expert in designing contradiction-driven and root cause–oriented architectures that transform complex processes into scalable, resilient systems.
* **Solution Architecture & Integration:** Proven ability to integrate disparate platforms (SAP, QAD, ISS, custom tools) into unified frameworks that improve traceability and decision-making.
* **Process Re-engineering & Continuous Improvement:** Skilled at mapping, analyzing, and refining end-to-end workflows using Lean, Six Sigma, and iterative redesign cycles.
* **Data Modeling & Reporting Automation:** Advanced proficiency building financial and operational reporting pipelines with robust validation, variance, and reconciliation controls.

Technical & Analytical Skills

* **Requirements Analysis & Traceability:** Ability to translate regulatory or business requirements into actionable system designs and maintain version-controlled documentation.
* Pioneer of contradiction-driven knowledge graph systems that transform organizational conflicts into actionable design pathways.
* Leverages symbolic logic and negative augmentation concepts to re-architect processes, policies, and data flows.
* **Risk & Compliance Architecture:** Proficient in building compliance risk maps, mitigation frameworks, and audit-ready controls across financial and operational domains.
* **ERP & BI Tools**: Hands-on experience with SAP, TM1, Power Query, Excel power tools, and other data integration or business intelligence platforms.
* **Knowledge Graphs & Symbolic Reasoning (PROMETHIVM)**: Pioneered contradiction-driven symbolic systems to track and metabolize organizational tensions as design fuel.