JEAN PAUL COLLAZO

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LinkedIn | GitHub | Portfolio | Projects

Engineering Management graduate and Data Science M.S. candidate with a UCLA Certificate in Data Science. Experienced in applying SQL, Python, and visualization tools to national-scale projects. I am skilled in SDLC and Agile methodologies, improving data integrity and enabling data-driven decisions through workflow automation, analysis and process improvement.

WORK EXPERIENCE

Data Management Analyst (Hybrid) December 2023 – Present
Taco Bell Corporation Irvine, California

- Led data gathering across cross-functional teams to develop SOPs for national and regional database updates, focusing on ETL processes and data accuracy.
- Applied SDLC principles across project lifecycles, from requirements gathering through testing and deployment—for system-wide initiatives.
- Queried, cleaned, and validated PLU (Price Look-Up) data using SQL, ensuring compliance and accuracy across locations.
- Authored Confluence SOPs for data entry and franchise-specific discount configurations in new systems.
- Managed lab testing and system data uploads; developed visual assets (POS keys, discount visuals, screensavers) using Retool and AWS S3.
- Managed and prioritized data requests using Asana, Monday.com, and SNOW, ensuring 100% on-time delivery for internal and external stakeholders.
- Mentored new analysts on data quality standards, documentation best practices, and system processes.
- Partnered with Marketing, Operations, Innovation, and Engineering teams to streamline workflows, reducing turnaround time by 35% on national projects.
- Used Agile and Scrum frameworks with tools like Jira and SNOW to enhance team coordination and data project efficiency.

EDUCATION

Master of Science in Data Science Expected: May 2027
California State University, Northridge
Master of Science in Engineering Management May 2024
California State University, Northridge
Bachelor of Science in Manufacturing Systems Engineering & Management May 2020
California State University, Northridge

RESEARCH EXPERIENCE

NASA ARCS Research Associate May 2025 – Present
Project: Intelligent Algorithm Team – BORACLE: The Oracle for Your Body project

- Sourcing and evaluating public wearable sensors and motion datasets (e.g., IMU data) to support the development of machine learning models in sports applications.
- Investigating early indicators of overtraining and biomechanical stress through time-series data analysis.
- Collaborating with researchers to design ethical, reusable data pipelines for AI-driven athletic performance and injury prevention tools.

Project: RecyKOOL - Maximize Waste Diversion Through Citizen Science, Data Analytics, and AI Digital Twin July 2025 - Present

- Co-developing a digital twin model to optimize waste collection processes and support sustainable facility operations.
- Implemented Agile methodology and weekly meetings, increasing member participation to 100% and driving consistent project progress.
- Assisted the project fellow in structuring workflows to address pending tasks and streamline execution.
- Designed and applied a Design of Experiment (DOE) approach to optimize facility data collection, considering 5 weekdays and 3 material types to maximize efficiency with limited team capacity.
- Creating bilingual (Spanish/English) training materials to educate and engage the Latin Community in the San Fernando Valley, promoting awareness of recycling practices and active support for waste management systems.

PROJECTS

Customer Purchase Behavior Analysis with Market Basket Mining | FP-Growth, Apriori, Data Visualization December 2024

- Analyzed 3M+ Instacart transactions using Pandas and visualized shopping trends, peak hours, and department performance.
- Applied FP-Growth and Apriori to uncover high-lift product bundles, informing targeted promotions and inventory strategy.

Smart Meter Fraud Detection Creation | Python, Pandas, Matplotlib, tsfresh December 2024

- Modeled smart meter tampering scenarios and visualized consumption shifts to detect non-technical losses (NTLs).
- Used tsfresh to extract time-series features and flag anomalies, enabling early fraud detection across industries.

TECHNICAL SKILLS

- **Languages:** SQL, Python, R, Java, C++, VBA
- **Technologies**: Visual Studio, Retool, Android Studio, Linux, EDM, AutoCAD, AWS (S3, Bedrock, Lambda, Textract, EC2), Tableau, Power BI
- **Databases**: Oracle, Microsoft SQL server
- **Tools:** Jira, Confluence, Monday.com, Asana, Slack, SAP ERP, Elo view, SNOW, JMP SAS, Minitab
- **Development**: SDLC, Agile, Scrum, ETL, Debugging, Testing, Intelligent Agents, Serverless Architectures, Version Control (Git, GitHub)
- **Process, Service Improvement & Optimization:** Six Sigma Tools (DMAIC, 5 Whys, Value Stream Mapping, MSA, DOE, Root Cause Analysis, Fishbone Diagram). Lean Manufacturing, Agile Project Management, Facility Planning, Hypothesis Testing & Interval Confidence, Simulation, Regression, Sensitivity Analysis & Machine Learning and Data Mining with Python.

CERTIFICATIONS

- Applied Software Engineering Specialization, IBM – May 2025
- Data Science Certificate, UCLA Extension – September 2024
- Six Sigma Green Belt, CSUN – May 2024
- Cybersecurity Professional Certificate, Google – January 2024

SPECIAL PROGRAMS & HONORS

Artificial Intelligence Summer Camp – Cal Poly DxHub & AWS |
Silver Award (2nd Place) – Team Cliff.j5on | github.com/JakAcos/expensight
Python, LLMs, Bedrock, Textract, EC2, Lambda July 2025

- Selected from over 900 CSU students for a competitive, 5-day AWS-led program combining AI training and a 2-day hackathon.
- Completed hands-on training in AWS Lambda, S3, Glue, DynamoDB, and cloud-native ML tooling.
- Co-developed Expensight, a travel audit platform that automated CSV/Excel ingestion, policy flagging, and structured output using AWS services.
- Led data engineering efforts to unify multi-source expense data into an audit-ready format used by internal systems.
- Earned Silver Trophy (2nd place overall) for innovation, collaboration, and technical execution under time constraints
- Represented CSU Northridge in a cross-campus team of six applying Agile teamwork and cloud design principles

ADDITIONAL QUALIFICATIONS

- Quick learner with a proactive, collaborative approach and a positive attitude.
- Proven ability to thrive in a fast-paced environment with competing priorities.
- Embrace feedback, reflection and take direction effectively.

LANGUAGES

- **English:** Fluent **Spanish:** Native