

Aaron Joshua E. Sison

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Education

De La Salle University

Expected Graduation: Feb 2028

Bachelor of Science in Management of Financial Institutions Minors: Data Science | Financial Economics | GW: 3.3 / 4.0

Professional Experience

Sustainability Project Intern

2023

Enderun Colleges

- Supported compliance reporting for sustainable business operations across regulatory documentation requirements.

Quantitative Projects

Econometric Industry Taxonomy for Philippine Policy

Nov 2025

Academic Research, Machine Learning

- Built a K-Means-based industry taxonomy from government census data, revealing that uniform MSME policy masks a structurally fragile system where nearly half of all industries are trapped as hyper-fragmented micro-enterprises.
- Engineered a three-feature structural fingerprint and segmented 228 industries into four distinct archetypes, validated by a Silhouette Coefficient of 0.49 and bootstrapped stability of 0.97.
- Quantified structural diversity via Shannon Entropy, showing that micro-enterprise-dominated sectors collapsed at rates far exceeding structurally diverse sectors during the pandemic.
- Delivered a four-archetype classification with a 0.44 correlation to pandemic-era closures, enabling targeted policy interventions over uniform subsidies. Open-source on **GitHub**.

Human Capital Optimization: Mid-Sized Industrial Corporation

May – Aug 2025

Corporate Consulting, Operations Research

- Diagnosed critical new-hire attrition challenges through structured interviews, identifying key improvement areas across onboarding, compensation structures, and performance management systems.
- Applied AHP to prioritize four structural interventions, with a structured onboarding program ranking highest due to direct leverage on attrition and operational feasibility.
- Projected a substantial ROI with a sub-one-year payback period using the Phillips ROI Methodology, supported by a financial model quantifying cost savings from attrition reduction.

Talent Acquisition Optimization: Salmon Finance Philippines

Apr – Jul 2024

Fintech Strategy, Decision Science

- Evaluated recruitment channels via a weighted decision matrix from executive interviews, finding cost-effectiveness and flexibility as the dominant factors (55%) for a capital-constrained fintech startup.
- Demonstrated the University Partnership model (7.8/10) outperformed Creator (5.4/10) and Cross-Industry (3.9/10) alternatives, reducing recruiter dependency.
- Designed a four-phase implementation roadmap and facilitated discussions between company executives and university officials toward a formal partnership.

Leadership & Extracurriculars

DLSU Economics Organization

2024 – 2025

Core Finance Officer

- Processed organizational transactions and reimbursements, ensuring accurate financial record-keeping and compliance.
- Prepared and managed financial documents related to organizational expenses, reimbursements, and operational budgets.

DLSU Frosh Walk

2024 – 2025

Assistant Team Leader (ATL)

- Assisted in coordinating participating organizations and corporate sponsors for DLSU Frosh Walk 2025.
- Distributed promotional materials and freebies to incoming freshmen, facilitating a welcoming campus environment.

Technical Skills

Programming	Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, GeoPandas), R, SQL, MQL5
Quantitative Methods	CAPM, Fama-French Factors, Rolling Beta, Annualized Volatility, DCF, Monte Carlo Simulation, Sensitivity Analysis, MAD Robust Z-Score, ATR-Based Sizing
Statistical Modeling	K-Means Clustering, OLS and Logit Regression, ARIMA, Hypothesis Testing (Chi-Square, ANOVA, Pearson), Shannon Entropy, AHP, Weighted Scoring Models, Phillips ROI
Tools	MetaTrader 5 (MQL5), Algorithmic Trading Infrastructure, Git, MS Excel, $\text{\LaTeX}$, Figma, Adobe Photoshop, Premiere Pro, Audition
Languages	English (fluent), Filipino (native), Japanese (in progress)

Certifications and Development

Lean Six Sigma White Belt	Council for Six Sigma Certification	2024
Japanese Language Study	Self-directed, targeting JLPT N1	Ongoing