

MARIA CONTRACTOR

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EDUCATION

University of Central Florida

Bachelor of Science in Data Science, Minor in Statistics

Burnett Honors College, 3.8/4 GPA

Relevant Coursework: Big Data Analytics Methods, Statistics and Data Science with AI, Data Science Programming, Data Management Technology

Orlando, FL

May 2025

EXPERIENCE

Bank of New York

Hedge Funds Analyst

Aug 2025 – Present

- Built a Power BI dashboard tracking digital tool usage, quantifying **5000+ hours saved** annually
- Modernizing hedge fund workflows to drive automation, efficiency, and risk reduction across **\$50B+ AUM**

Global Compliance and Risk Analyst Intern

Jun 2024 – Aug 2024

- Built **Power BI** dashboards in liquidity and cash management to track manual workflows, giving managers visibility into thousands of daily cash transactions
- Designed **Microsoft Visio** workflows documenting **10+ treasury processes**, highlighting automation opportunities and standardizing procedures across teams

University of Central Florida

Data Analytics Research Assistant

Aug 2024 – May 2025

- Engineered a **Power BI** dashboard tracking contracts and status reports for **926 graduate students**, delivering real-time insights across terms and programs
- Implemented cumulative and weekly visualizations that **cut manual tracking by 40%**, enabling faculty to monitor approvals, denials, and workflows across **15+ departments**

Data Glacier

Data Science Intern

May 2023 – Aug 2025

- Deployed a **Flask + Heroku** app hosting a **linear regression model** trained on **10K+ records** to predict test scores, improving accuracy through logging and iterative feedback integration
- Leveraged **Python** data transformation techniques to clean and analyze **50K+ cab company records**, performing comparative analysis that identified key investment factors

PROJECTS

Enterprise LLM Evaluation and Optimization

Jan 2025 - May 2025

- Benchmarked 12 LLMs on runtime, cost, and scalability, uncovering **40% faster analysis**, **30% lower infrastructure costs**, and potential **\$100K+ annual savings** through secure open-source deployment
- Delivered an AI governance and adoption roadmap that gave executives a clear strategy to scale LLMs securely, reduce risk, and maximize ROI

Addition Financial Analytics Competition

Sept 2023 – Jan 2024

- Queried Census and economic datasets in **SQL** and used **Python** (pandas, scikit-learn) to model branch site demand based on population density, income distribution, and consumer behavior
- Built predictive models that ranked potential sites, projecting a **10–12% increase** in market penetration and **\$5M+ in new deposits** through optimized branch expansion strategy

Multus Medium

Jan 2023 – May 2023

- Built a recommendation system in Python and PyTorch using matrix factorization to deliver personalized media suggestions
- Processed **1M+ user–item interactions** and improved recommendation relevance by **~10–15%** compared to baseline models

SKILLS

Awards - NCWIT Northern Florida and Southeast Georgia Affiliate Award for Aspirations in Computing Winner

Certifications – Alteryx Designer Core Certification, Microsoft Career Essentials in Generative AI, SQL Essential Training, Python Object-Oriented Programming, From Excel to Tableau

Programming Languages – PostgreSQL, Python, R/ R Studio, C, Java, JavaScript

Organizations – American Mensa Member, FIRST Lego League Robotics, BotBall, Indian Students Association, PERIOD @ UCF, Honors Congress, DECA