

DANIEL B. CARPENTER

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EXPERIENCE

Senior Financial Analysis Advisor

November 2022 - Present

Office of Investment Management & Strategic Finance, the Chickasaw Nation

- Delivered analysis that founded a \$5 billion long-term investment portfolio aimed at indefinitely funding 25% of Chickasaw Nation's governmental services through interest and dividend income.
- Enhanced portfolio allocation for a \$2 billion liquidity fund by developing an automated data retrieval and validation system in Python, significantly minimizing allocation errors.
- Developed neural network models to improve portfolio return predictions, achieving an average forecast error reduction of 10-20%.
- Initiated and led the creation of an online R Shiny dashboard suite for the Office of the Governor.

Advisor of Operational Performance and Analysis

January 2021 - November 2022

Office of Strategic Planning, the Chickasaw Nation

- Conducted market analysis to aid Chickasaw renters and homeowners during post-COVID-19 inflation, uncovering approximately \$100MM in unexpected annual offerings.
- Recommended strategy to maintain security labor amid a competitive labor market, preventing nearly \$12MM in unforeseen yearly expenses.
- Led a team in allocating \$34MM in federal funds for loan recycling, securing a decade of autonomous funding for minority-owned businesses in Oklahoma.
- Deployed an R-based revenue model yielding 95% forecasting accuracy, regularly presented to the CEO.

Intern for Operational Performance and Analysis

June 2018 - December 2020

Office of Strategic Planning, the Chickasaw Nation

- Reduced precision manufacturer inventory costs by \$250,000 (42% of est. COGS) through strategic consultation.
- Engineered and executed a labor model with R and Tableau, reducing staffing inefficiencies. Collaborated with operators to standardize labor metrics across businesses, enabling efficient performance comparisons.

Executive Vice-Chair of Finance & Data Analytics

April 2018 - March 2020

The University of Oklahoma's Dance Marathon

- Created an API-driven revenue forecasting model for real-time guidance in executive decision-making.
- Designed a participant-demographics database with Microsoft SQL Server to enhance market targeting strategy.

EDUCATION

Master of Science, 2023

Data Science and Analytics, GPA: 3.72/4.00

University of Oklahoma, Norman OK

College of Engineering

Bachelor of Business Administration, 2020

Economics and Finance, GPA: 3.83/4.00

University of Oklahoma, Norman OK

Graduated with *Special Distinction*

AREAS OF EXPERTISE

*Data Visualization & Storytelling in **ggplot** and **Canva***

*Optimization Modeling in **gurobi** **Python***

*Machine Learning in **Python** & **R***

*Causal Inference Modeling in **Python** & **R***

***SQL** for Data Science Process*

*Earnings & Valuation Modeling in **Excel***

*Executive Dashboards in **Tableau** & **R Shiny***

*Project Delivery with **GitHub**, **R Markdown**, and **Jupyter***

HONORS & ACCOMPLISHMENTS

Distinguished Leadership Award, Children's Miracle Network Hospital's Dance Marathon, May 2020

- Award based on national and local impact on Children's Hospitals' funding while Executive Vice Chair of Finance.
- Selected from thousands of graduating seniors across 300 colleges who take part in CMN Dance Marathon.
- Honored with the "Hero Award" by Oklahoma's Children's Hospital Foundation as recognition for this service.

Eagle Scout, Boy Scouts of America, 2013

Valedictorian Scholarship, University of Oklahoma, 2016