# Connor Michael Jones

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## EDUCATION

**Georgetown University** Washington, D.C.
*Master of Science in Data Science and Analytics* December 2025

**The University of Chicago** Chicago, IL
*Bachelor of Arts in Economics with a Specialization in Data Science* June 2022

## PROGRAMMING PROJECTS

### Academic Work

- Manufactured a chessboard-recognition system with a [custom ConvNeXt-Transformer model](#) on ChessReD dataset – 64 square classification with 93% accuracy – and implemented replicable data preprocessing, training, and Streamlit interface
- Fine-tuned a Gemma 3 4B LLM for [text-to-SQL generation](#) using LoRA adapters, designing a full training and execution-based evaluation pipeline with SQLite to measure semantic correctness, similarity metrics, and query accuracy
- Architected a [Reinforcement Learning pipeline](#) using Google Tunix and GRPO to train a Gemma 3 LLM to produce interpretable reasoning traces that leverage LoRA adapters, custom reward functions, and a two stage Planner-Solver design flow to improve reasoning reliability and mathematical accuracy on GSM8K benchmarks
- Deployed a real-time [hand and ASL letter detection app](#) in Streamlit, integrating YOLOv8 object detection, PyTorch CNN classifier, and OpenCV video streaming to deliver interactive object detection and low-latency predictions
- Shaped a graph prediction model for professional esports using a relational [Graph Attention Network](#) (GAT) to generate match-winner probabilities from player and team performance signals that achieve a 3% edge versus random chance

### Independent Study

- Engineered [The Blue Maroon web platform](#): with REST FastAPI backend, TypeScript frontend, Auth0 SIWE login, Neon PostgreSQL, with a Dockerized deployment on Render, and emphasizing secure JWT routing and scalability
- Fashioned a fully interactive [3D humanitarian-security visualization](#) platform using Three.js, custom GLSL shaders, and a multi-scale geospatial analytics pipeline to enable animated incident timelines, organization-level filtering, heat-map intensity rendering, and rich storytelling features

## PROFESSIONAL EXPERIENCE

**Artificial Intelligence Measurement & Data Science Laboratory** Washington, D.C.
*Graduate Research Assistant* October 2024 – October 2025

- Constructed R and Python scripts to clean and feature engineer test results from 30+ countries that participated in the 2019 Trends in International Mathematics and Science Study (TIMMS)
- Utilized machine learning techniques like t-SNE clustering and PCA dimensionality reduction to uncover and visualize latent trends in the behavior of high performing students

**CharterUP Technologies** San Francisco, CA
*Senior FP&A Analyst* June 2022 – August 2024

- Assembled Alteryx Designer workflows to connect to an Amazon Redshift data warehouse via PostgreSQL queries that deliver daily monitoring of the company's several proprietary charter bus databases
- Engaged the Python Selenium Package to direct web browser bots in automated entry of customer financial information
- Created and balanced monthly, quarterly, yearly, and LTM financial statements for Board reporting packages
- Produced 2024-2025 revenue and budget forecasts with models including Growth Based Monthly P&L Projections, Bottom-Up Sales Rep Revenue Projections, and Weekly Cash Flow Forecasts
- Integrated Zapier with Brex to create a flexible payment system for non-partner vendors, and engineered Alteryx Workflows to automate accounts payable with a NACHA file system executing up to $1,000,000 in daily payments

**Is Inspired, LLC** Denver, CO
*Data Analyst Intern* June 2020 – January 2022

- Employed Microsoft VBA and RStudio to consolidate, optimize, and automate 18 weekly operations reports used by the fund allocation team at a Fortune 500 cloud services and data management company
- Formed smart, interactive dashboards for a variety of clients to track project management timelines, identify underperforming systems, and monitor financial information

## TECHINICAL SKILLS

**Basic Computer:** Python, JavaScript, PyTorch, SQL, Git Version Management, Model Deployment (XGBoost)
**Cloud Engineering:** AWS (EC2, S3, Athena, Glue), Spark/Hadoop, Docker Containers, Kubernetes, Linux and WSL
**AI Architectures:** Convolutional Neural Networks, Transformer & Attention Models, Reinforcement Learning (RL)