Headshot:

About:

Master's student at Georgia Tech (4.0 GPA) specializing in Computational Data Analytics, with a proven track record of transforming healthcare operations through innovative data engineering and machine learning solutions.

Incoming Lead Analyst (Analytics Leadership Development Program) at Cigna Group. Previously drove impactful insights at the Cigna Group and Centene through engineering KPIs, building predictive models, and automating large-scale data pipelines to support decision-making and value-based care.

Contact Info:

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Education

Georgia Institute of Technology, Atlanta, Georgia (4.00/4.00)
M.S. Analytics, Computational Data Analytics (Aug 2024 – Dec 2025)

The University of Georgia, Athens Georgia (3.99/4.00)
B.B.A. Management Information Systems, Data Analytics (Aug 2020 – May 2024)

Professional Experience:

The Cigna Group:
Incoming Lead Analyst, Analytics Leadership Development Program (July 2025)

Data Science Intern, Analytics Leadership Development Program May 2025 - Aug 2025
- Conducted feature testing experiments on in-production account-level renewal risk models in Databricks, engineering 7,500+ clinical features from member-level data for account-level feature testing. Validated experiment models against baseline models and identified a high-impact signal from features tied to significant model improvement.
- Designed and tested R&D proposals for aggregating member-level data into account-level features using tensor representations and multi-level modeling, exploring alternatives to historical feature engineering methods used by team over the past five years

Centene Corporation:
Data Engineering Intern, Call Center Engineering May 2024 – Aug 2024
- Led 4 projects utilizing Python/SQL to explore bot routing, agent staffing, authentication failure, and caller dropout. Analyzed data from Snowflake, engineered 10+ KPIs, clustered 50+ bots, and built business-oriented and data-driven visualizations.

- Uncovered 10 bot routing inconsistencies affecting 750K+ annual callers and 3 daily staffing misalignments with call volume. Presented findings to 150+ stakeholders to guide call center optimization.

Data Engineering/Technical Product Owner Intern, Product Support Analytics May 2023 – Aug 2023
- Partnered with Recovery Platform teams to identify 7 critical KPIs for recovery claims performance, deployed live dashboard to production.
- Engineered end-to-end analytics production pipeline and deployed 50+ Snowflake objects (Streams, Tasks, Views) to extract unstructured JSON data from Confluent Cloud, transform it into structured tables, and load it into Power BI for semi-hourly reporting.

Technical Product Owner/Manager Intern May 2022 – Dec 2022
- Automated onboarding process via Python (Selenium), cutting entitlement processing time by 55% and onboarding time from 2 months to 30 minutes (projected $170M savings).
- Led surveys and interviews to identify 3 onboarding bottlenecks and presented solutions to drive onboarding/entitlement process redesign.

Global Connect Group
Information Systems/Technology Intern (Jan 2022 - Jan 2023)
- Supported the group's platform-as-a-service model by troubleshooting SQL-hosted variable errors and integrating multiple business models across diverse sectors.
- Managed online marketing content via SquareSpace while fostering strong relationships with CEOs and executives to align technical and business goals.

Flex ATL
Account Executive Intern (May 2021 - Jun 2021)
- Fundraised for the International Fund for Animal Welfare through direct marketing, developing strong skills in public speaking, customer engagement, and product promotion.
- Collaborated with Regional Managers and Corporate Trainers to refine interpersonal communication and professional networking skills.

Projects

*keep all projects under one combined section; just add an additional flair for personal vs academic projects)

Personal Projects:

Agentic Website Development (This site!)*(Fall 2025 – Present)*
- Developing a personal branding website on Replit, built with React, TypeScript, and Tailwind CSS, designed to dynamically showcase résumé content, projects, and experiences through a modern, responsive interface.

Agentic Resume Intelligence (ResuMind) (Fall 2025)
- Built an AI-powered resume optimization system in Python, Flask, and SQLite on Replit as an introduction to Agentic AI (A2A). Designed six parallel agents for parsing, tailoring,

proofreading, and ATS scoring to create a privacy-first, upload-once platform for dynamic and personalized resume generation.

Academic Projects:

<u>Procedural and Spatial Syntax Analysis for Nursing Workflow and Hand Hygiene Compliance</u> *(Fall 2025)*

- Conducting research at Emory University Hospital Midtown to identify procedural and spatial barriers to hand hygiene compliance through literature review, manager interviews, and data collection; developing an evidence-based design framework for improved compliance and preparing a publication-ready paper.

<u>Simulating Cost-Effectiveness and Time to Recovery for Telehealth vs. In-Person Visits</u> *(Fall 2025)*

- Designing a discrete-time simulation model in Python with a user-friendly interface to compare recovery time and cost across telehealth, in-person, and hybrid care models; manually coding transition probabilities and recovery functions informed by existing healthcare literature.

<u>Impacts of Social Determinants of Health on Bloodstream-Acquired MRSA Infections in California (Fall 2025)</u>

- Integrating hospital-reported infection data with county-level socioeconomic variables to model and forecast MRSA infection rates using regression, time-series, and spatial deep learning techniques; uncovering social and structural factors driving infection disparities across California counties.

<u>ClusterCure: SDoH Analysis for Health Desert Identification and ER Visit Prediction (Spring 2025)</u>
- Engineered a 200+ feature county-level dataset and used PCA and LASSO to identify key predictors of preventable ER visits. Clustered counties by SDoH profiles and trained SVM and Random Forest models to predict and prevent ER visits.

<u>State-Level Electricity Forecasting and Visualization Tool (Fall 2025)</u>
- Built a GCP MySQL pipeline to ingest 2.5M+ EIA API records. Developed LSTM and XGBoost models for forecasting electricity demand/generation, applied PageRank to identify grid vulnerabilities, and created interactive Tableau visualizations.

<u>Human-Mays Case Competition (50th out of 284 Teams) (Fall 2025)</u>
- Developed CatBoost model (AUC: 0.75) on 1.9M+ records to predict member engagement in preventive care; delivered actionable recommendations leveraging Humana's architecture to boost Medicare Advantage plan ratings and health outcomes.

<u>Genre Matters: Parametric and Nonparametric Analysis of Genre Popularity in Television Shows (Fall 2025)</u>
- Analyzed over 1,000 TV shows using parametric and nonparametric statistical methods to compare episode rating distributions across genres, uncovering significant patterns in audience reception and genre popularity.

<u>Spotify Song Recommender (Spring 2025)</u>

- Built a Python application using Spotify's API to analyze user listening trends and generate personalized song recommendations, improving engagement through similarity-based insights.

Housing Price Predictor (Fall 2023)
- Modeled housing prices for 900K+ listings using PCA, Linear Regression, Random Forest, and XGBoost in R, enhancing property valuation accuracy for buyers and agents.

Does Defense Win Championships? (Fall 2023)
- Conducted descriptive and regression analyses on NFL data to assess the impact of defensive performance on long-term team success.

Technical Skills

Languages
- Python, SQL, Java, HTML/CSS
- Pandas, Numpy, scikit-learn, Tidyverse, XGBoost RandomForest

Data Processing
- Snowflake, Apache Spark (PySpark)
- Web Scraping, Web APIs, MySQL, SQLite, Postgres

Visualization
- Power BI, Tableau, D3.js, Matplotlib
- ggplot2 , UML, BPMN 2.0, Gephi

Development & Cloud
- AWS, GCP, Azure, Git, Salesforce, Agile/Jira

Certifications

AWS Certified Cloud Practitioner
Lean Six Sigma Yellow Belt
Snowflake Hands-on Data Essentials

Leadership/Asian Advocacy:

Lambda Phi Epsilon Fraternity, Inc.

Mid-Atlantic Governor (May 2024 - Present)
- Oversee and support Mid-Atlantic chapters to ensure operational excellence, leadership development, and alignment with national fraternity standards.
- Mentor chapter officers and facilitate regional collaboration to promote best practices, strengthen connections, and drive organizational growth.

AX Chapter Alumni Advisor (May 2024 - Present)
- Advise active chapter leadership on operations and strategy, ensuring alignment with organizational values while promoting sustainable growth.
- Strengthen alumni engagement and mentorship by connecting alumni with chapter leaders and supporting officer development through guidance and best practices in governance.

Fraternity Member (Aug 2021 - May 2024)
- Led chapter operations as President, Vice President of Communications, and Sergeant-at-Arms, overseeing governance, internal communications, and member development to drive organizational growth and uphold fraternity standards.

Asian American Student Association

Family Group Mentor, Aug 2021 - May 2024
- Mentored students through the Asian American Student Association's Family Group Program, providing academic, professional, and personal guidance while organizing events to foster cultural connection and community engagement.

UGA Asian Cultural Diversity Society

Language Tutor Aug. 2020 - May 2021
- Tutored students in Chinese writing, grammar, and conversation through weekly one-on-one sessions, integrating cultural lessons to enhance language proficiency and appreciation of Chinese traditions.

Academic Experience:

The University of Georgia

Analytics Lab Tutor (Jan 2024 - May 2024)
- Tutored undergraduate and graduate students in R, mathematics, and statistics for *Data Science for Business and Economics (BUSN 5000)* and *Introduction to Econometrics (ECON 4750/6750)*, strengthening understanding of applied econometric techniques.

Teaching Assistant (Jan 2022 – Jan 2024)
- Supported instruction for MIST 2090: Introduction to Information Systems in Business by assisting with project management, business modeling, and data visualization in Excel and Tableau.
- Proctored assessments, graded assignments, and provided academic support to over 100 students per semester.

Research Assistant (Aug 2020 - Aug 2021)
- Engineered a prototype to extract live code from Haas Mill Machines using DPRNT statements and integrated macro values with the Losant IoT API for real-time machine monitoring.

- Collaborated with professors and students nationwide to promote a ThinkTank environment focused on developing smart factory solutions that enhance efficiency through human-technology interaction.

Georgia State University
<u>Research Assistant (Jun 2020 - Oct 2021)</u>
- Collected, cleaned, and analyzed large datasets using Excel and Dropbox to support developmental economics research under Dr. Alberto Chong.
- Applied macroeconomic concepts to review and provide feedback on journal drafts, contributing to *Latin American Economic Review* (Vol. 29) and ongoing research on firm ownership in rural mining regions.