

TASNIM RIDA

ridatasnim@gmail.com | Portfolio: <https://tasnimrida.github.io/www/> | Hartford, CT | 347-741-3893

EDUCATION

Carnegie Mellon University

August 2021 - May 2025

Bachelor of Science in Statistics | Minor in Media Design

- **Relevant Coursework:** Principles of Computing, Probability & Statistical Inference, Sampling, Survey & Society, Modern Regression, Statistical Computing, Statistical Graphics & Visualization, Advanced Methods of Data Analysis, Statistics in Health Sciences
- **Honors:** Dietrich College Dean's List Fall 2021 and 2023, High Honors Spring 2024, Fall 2024, and Spring 2025
- **Activities:** Design For America, First-Year Orientation, Kappa Kappa Gamma, Muslim Student Association

SKILLS

Data & Visualization: R (Shiny, ggplot, tidyverse), Python, Excel, Grafana, Prometheus

Design: Figma, SolidWorks, Fusion 360

RELEVANT EXPERIENCE

Optum

August 2025 - Present

Associate Software Engineer

- Developed an end-to-end, agent-based workflow for time-series analysis, including aggregation, forecasting, and orchestration to make large-scale infrastructure data more accessible and actionable.
- Designed AI-assisted implementation of an aggregation agent to downsample high-resolution VictoriaMetrics data using insights from Grafana and Prometheus to define metric-specific aggregation strategies that reduce volume while preserving analytical value.
- Implemented a forecasting agent with configurable machine learning inputs and AI-assisted development, alongside a Postgres-backed evaluation module for model comparison; validated and containerized both agents for scalable deployment.

UnitedHealth Group: Bridges to Healthcare Technology Program

Summer 2024

Data Analytics Intern

- Modeled and analyzed premature death rates across socioeconomic and demographic backgrounds using linear regression and gradient-boosted trees, identifying opportunities to improve health disparities.
- Created visualizations and a poster presentation to communicate research insights to advisors and stakeholders.

Xpogo LLC

Summer 2023

Data Intern

- Designed 6 interactive data visualizations using R and Shiny, enabling clear communication of expense type trends and facilitating data-driven business decisions.
- Processed and organized profit and loss data to create Excel summary tables for internal staff use.

Data-Driven Diversity Lab

September 2022 - August 2024

Undergraduate Research Assistant

- Designed a behavioral experiment on social rejection and risk-taking across varying conditions of rejection clarity and group status; developed Qualtrics surveys, led data collection, and conducted in-depth data analysis and visualization in R to generate insights.
- Presented findings at the Society for Personality and Social Psychology 2024 Annual Convention (San Diego, CA); selected as the winning poster for the Psychology Department at CMU Meeting of the Minds 2024.

LEADERSHIP EXPERIENCE

Carnegie Mellon Statistics & Data Science Department

September 2023 - May 2025

Teaching Assistant (January 2024 - May 2025)

- Facilitated weekly lab sessions and office hours to provide course support for Sampling, Survey, and Society (Spring 2024) and Statistical Graphics & Visualizations (Fall 2024, Spring 2025)

Statistics Ambassador (Fall 2023 - Spring 2025)

- Designed promotional materials, updated program website weekly, and managed logistics and budget allocation for departmental events to strengthen student-faculty connections.
- Hosted weekly Connection Hours to offer undergraduate students personalized academic advice and support, aiding their academic success and career preparation.