

SONALI SINGH

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EDUCATION

The University of Texas at Austin	Data Science M.S.	Dec 2023
The University of Texas at Austin	Mathematics B.S. Applied Statistical Modeling Certificate, Business Minor	May 2021

PROJECTS

Evil Hangman – Python	September 2022
• Designed hangman game that beat a human player by maximizing wrong answers across entire dictionary in most efficient Big O time	
Meat Consumption vs. CO2 Emissions – R	May 2022
• Investigated relationships from raw user data through linear regression and k-means clustering for grouping; used ggplot for visuals	
Freshman Research Initiative: Biofuels and Big Data – Linux, Python, R	Jan – Dec 2018
• Analyzed 30,000+ genes in <i>P. hallii</i> , identified high salinity genes, and visualized results with ggplot; used to support a graduate thesis	

TECHNICAL SKILLS

Languages: Python, Go, R, SQL

WORK EXPERIENCE

Booz Allen Hamilton – Washington, D.C. <i>Operations Research Analyst, Sr. Consultant</i>	Aug 2022 – Present
• Analyze historical cost, market, and \$250M+ contract data to create cost and risk models (Python, Excel) based on client need	
• Collaborate with Schedule Risk Team to increase dashboarding capabilities up to 25% by integrating ongoing estimates' financial data	
• Lead internal trainings, speaker series, and monthly briefs for 26-person Cost Team as a part of Strategic Communications Team of 3	
<i>Operations Research Analyst, Consultant</i>	Jul 2021 – Jul 2022
• Led and completed research, analysis, client meetings, and final presentation for 8 cost estimates to guide DOD budget requests	
• Analyzed 5 multi-million-dollar DOD contracts to identify government cost savings and support negotiations (~16% average savings)	
US Ignite – <i>Research Intern</i> , Washington D.C.	Jun – Aug 2020
• Aggregated data from 51 cities to create a 22-variable logistic regression model (R, SQL) analyzing socioeconomic trends and retainment within US Ignite's SGC to guide bias-averse selection for community expansion; directly influenced addition of 3 cities	
• Wrote 4 smart city pilot proposals, one of which launched a \$40,000 COVID-19 safety & innovation pilot in Arlington County, VA	
Texas Commission on Environmental Quality – <i>Air Quality Intern</i> , Beaumont, TX	Jun – Jul 2018
• Identified new Excel-based method to calculate refinery stack tests in 1/3 of the original time; adopted by Air Section Team of 12	

LEADERSHIP EXPERIENCE

Texas 4000 – <i>2019 Finance and Operations Chair & Rider, Alumna</i>	Nov 2017 – Present
• Volunteered 150 hours and cycled 4,000+ miles from Austin to Anchorage, AK over 70 days to raise awareness for cancer research	
• Managed \$760,000+ of rider finances, corporate and personal donations, and corporate matching for 89 riders over 10 months	
Interfaith Action of Central Texas – <i>Refugee Youth Program Mentor</i>	Feb 2019 – May 2021
• Mentored high school students for 2 hours per week in their classes and provided college application and financial aid support	
• Assisted refugee families in acclimating to American life by providing language, medical, transportation and financial resources	

HONORS

University of Texas Presidential Scholar	Aug 2017 – May 2021
University Honors	Spring 2019, Spring and Fall 2020

ADDITIONAL INFORMATION

Languages: English (native), Spanish (moderate)

Work Qualifications: US Secret Security Clearance, eligibility to work in the US with no restrictions