Firstname Lastname

myemail@gmail.com ❖ (123)-456-7890 ❖ Boston, MA

EDUCATION

University of School Name **Est. Spring 2025**
Master of Science in Statistics Candidate
Data Science Certificate

University of School Name **Est. Spring 2023**
Cumulative GPA: 3.7
Bachelors of Science in Mathematics
Concentrations: Applied Mathematics & Actuarial

PROJECTS

COVID Data Analysis **September – December 2022**

- Used R to apply multivariate linear regression models to compare total new vaccinations with total new cases, total new tests, positive rate, and total new deaths. This model was designed to answer how effective the new vaccine is.
- Applied hypotheses tests and F tests where confidence intervals, prediction intervals with predicted values and fitted values, p-values, and R-squared were found and analyzed with plots.
- Checked assumptions and patterns via plots for residual errors around the regression model. If violations were found then a transformation was applied to the response or predictors.

Finance Project **November 2021**

- Utilized Mean-Variance portfolio theory and Sharpe ratio via Python to find the optimal portfolio of assets to hold and maximize the return relative to a given choice of risk.
- Used historical data for stocks available from Yahoo Finance.

Mathematical Billiards **October 2021**

- Computed trajectories of billiards with elastic collisions via Python.
- Observed obstacles include a square table, whispering gallery, and Sinai billiards.
- Coded and analyzed phase space diagrams for the collisions with the obstacles.

Rubik's Cube **September 2021**

- Applied group theory and implemented the symmetric group for a 2x2 Rubik's cube in Python.
- Computed the total number of states of the cube and found the maximal number of turns for a solution by assigning permutations for 3 moves and then using them as the generators for the required subgroup.

WORK EXPERIENCE

Intern for State Representative **August 2018 – December 2018**

- Conversed with thousands potential voters to explain Mr. 's stance and goals
- Documented and monitored constituents' opinions and ideas via Excel
- Worked in a collaborative environment with 10-15 people to canvass local citizens

SKILLS

- Proficient: Python and R
- Familiar with: SQL, MATLAB and Excel