

# Mehnaz Tabassum

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## Education

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### Colgate University, Hamilton, NY – B.A. Computer Science & Economics

August 2019 - May 2023

- GPA: 3.58/4.0 ( Dean's Award, Fall 2019-Spring 2021; Omicron Delta Epsilon)
- Study Abroad: University of Manchester, Fall 2021
- Relevant Coursework: Data Structure & Algorithms, Algorithms & Complexity, Introduction to AI, Applied Econometrics, Computer Systems, IBM Data Analytics with Excel and R

## Projects

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### Defusing Binary Bombs - C - The University of Colorado Boulder (Summer 2022)

- Disassembled hidden C code to machine language using the GNU Debugger, following 200 register transfers.
- Tracked for-loops, recursions and a fibonacci series to discern password strings that disabled six cyber-bombs.

### Economic Inequality and COVID-19 Mortality Rates - Stata - Colgate University (Spring 2022)

- Gathered, cleaned, and merged 10+ census datasets, and applied advanced regression techniques on this data to show a significant relationship between income inequality and COVID deaths in US counties, and to make policy suggestions.

### Visual Odometry in an Autonomous Vehicle - Python - The University of Manchester (Fall 2021)

- Utilized the KITTI dataset and virtual Linux environment to create a VO system that measured and returned feature distances to determine the position of an autonomous vehicle.

## Experience

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### Grant Thornton - Consulting Intern (Proposal Team)

Dhaka, Bangladesh | June 2021 - August 2021

- Conducted thorough statistical analyses for evaluation reports by processing survey results from training programs with over 50 batches each, producing ~20 graphical and tabular results for each program.
- Polled 24 client and senior management opinions to draft and design an annual pitchbook.

### Colgate University - Research Assistant

Hamilton, New York | January 2020 - May 2021

- Investigated the stress reactions of 12 fern species to hostile conditions by using special equipment (e.g., conductivity meter, fluorometer, pH meter), modeling results graphically using sketches and desmos.
- Organized literature reviews by selecting and critically evaluating relevant papers for discussion and using the knowledge obtained to improve experimental procedures and draw better conclusions.

## Activities

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### Colgate University – Orientation Leader

Hamilton, New York | August 2021 - Present

- Facilitate 18 first-years through their orientation and freshmen experience by leading team-bonding activities, workshops and tours to create bridges between the newcomers and 7 campus organizations and resources.

### The Women's Network at Colgate – President

Hamilton, New York | January 2022 - Present

- Spearhead the Colgate chapter of a national career network, brainstorming program ideas with 150+ national presidents and board members to curate a calendar of 4-5 networking and skill-building events a semester.

## Skills & Interests

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- Java, Python, C, C++, R, Stata, SQL, HTML, Prolog, Bangla, Hindi, Turkish, Microsoft Office, Linux
- WHOLE GRAINS | INVESTING | DANCE | POETRY