

# Anish Thakkalapally

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## Education

**Rutgers University** – New Brunswick, NJ Expected May 2023  
Bachelor of Science in Chemical Engineering, Minor in Computer Science and Mathematics  
GPA : 3.90

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## Experience

**Research Assistant, Ramachandran Group (Rohit Ramachandran)** Jan 2022 - Jan 2023

- Developing equation-based models using MATLAB for different particulate based processes such as granulation, mixing, and milling to better understand the process efficiency of pharmaceutical operations
- Programming graphical user interfaces (GUI) using Excel and Matlab to visualize model dynamics in the Matlab environment within Excel.

**Research Assistant, Case Group (David Case)** – Piscataway, NJ May 2021 - Aug 2021

- Compiled NMR data to investigate trends for the shielding of atoms beyond distance constraints
- Created 3D renderings of molecules and compiled coordinates of individual atoms in mol files
- Executed 5 different scripts on over 200 mol files using a command-line interface within an SSH server to obtain molecular NMR data for each atom in the molecule
- Analyzed different conformations of the same molecule to understand trends from confounding variables

**Teaching Assistant, Rutgers Preparatory School** – Somerset, NJ Sep 2020 - Jun 2021

- Led weekly online meetings for over 50 students learning the AP Chemistry curriculum
- Organized group activities and demonstrated solutions for practice exercises to further students understanding of the AP chemistry curriculum
- Created and presented review material for the students before quizzes and exams in order to instill student confidence and preparedness

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## Skills

**Programming:** MATLAB, Java, Python  
**Technical:** Microsoft Excel, Aspen, Bash

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## Awards and Honors

- **Dean's List** : Fall 19', Spring 20', Fall 20', Spring 21', Fall 21', and Spring 22'
- **Tau Beta Pi (Engineering Honor Society)**
  - Inducted into the Engineering Honor Society for being in the top 1/8 of class
- **Chemical Engineering Research Symposium Award**
  - Presented a research poster that placed 2nd amongst chemical engineers

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## Leadership

**High School Varsity Lacrosse Captain** – Plainsboro, NJ Mar 2019 - Jun 2019

- Provided support to newer team members and oversaw drills to improve team performance
- Communicated with coaches and teammates to strategize for matches