

# Anish Thakkelpally

(609)-613-1682 • anishtt2@gmail.com

---

## Education

---

**Rutgers University** – New Brunswick, NJ Expected May 2023  
Bachelor of Science in Chemical Engineering, Minor in Computer Science and Mathematics  
Dean's List : Fall 19', Spring 20', Fall 20', Spring 21', and Fall 21'  
Member of Tau Beta Pi (Engineering Honor Society)  
GPA : 3.89

## 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 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 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 student understanding in chemistry
- Created and presented review material for the students before quizzes and exams in order to instill student confidence and preparedness

## Skills

---

**Programming:** MATLAB, Java, Python, Command Line Interface

**Technical:** Microsoft Excel, Microsoft Presentation, Microsoft Word, Aspen

## Leadership

---

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

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