# Rayan Molkara

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# **EDUCATION**

#### **B.S.** Chemical Engineering

**Expected May 2027** 

University of Maryland - Benjamin T. Rome Scholarship Recipient

## **High School Diploma**

**Graduated Spring 2023** 

Richard Montgomery High School

GPA: Cumulative - 4.0/4.0 Weighted - 4.73/5.00

## **EXPERIENCE**

# **Engineers Without Borders**

College Park, MD

Hydraulic Systems Engineer

Fall 2023 - Present

- Conducted applied study on the hydraulic behavior of pumps, cisterns and water towers
- Managing budget of \$14,000 to install new latrines in Nakifuma, Uganda to optimize water usage and sanitariness
- Date to leave: Summer 2024

## **American Institute of Chemical Engineering**

College Park, MD

Undergraduate Student Representative

Fall 2023 - Present

- Aim to facilitate effective skill-building workshops for undergraduate engineering students
- Promote the institution's undergraduate engineering competitions
- Gaining professional experience in higher education teaching

Mad Science D.C. Silver Spring, MD

Counselor Summer 2023

Instructed 20-30 elementary grade students through General Chemistry, Physics, and Astronomy
Cooperated with counselors to lead students through Acid-Base Titrations and Oxidation Reactions

#### Richard Montgomery AP/IB Physics

Rockville, MD

**Teaching Assistant** 

Spring 2022 - Spring 2023

- Taught classical physics to 20-30 high school students`
- Led guided study session weekly for exam prep and lab design

#### **Rocket Helpers**

Rockville, MD

President

Fall 2019 - Spring 2023

- Coordinated soup kitchens and clothing drives for Montgomery County's homeless population
- Generated over \$2,000 in donations through food drives and cause marketing campaigns
- Student body engagement totaled over 4,000 hours of volunteer work

# **Teens With Heart Songs**

**Montgomery County, MD** 

Vice President

Winter 2020 - Spring 2023

- Delegating a team of 30 students through donation outreach campaigns for Children's National fundraising
- Raised over \$12,000 through online advertisements and cause marketing campaigns with local businesses

# **TECHNICAL SKILLS**

Subjects: Classical Physics, General Chemistry, Circuitry

Languages: Java / C++

**Technical:** Higher Education Teaching, Project Management, Research