**Emanuel Ray**

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# **EDUCATION**

**Tufts University** Class of 2021

Bachelor of Science in Physics and Minor in Spanish

*Relevant Coursework:* Biology 13, Chem I & II, Biophysics, Quantum Mechanics, Linear Algebra, Differential Equations

GPA: 3.5, Deans List

# **RELEVANT EXPERIENCE**

**Tufts University Biomedical Engineering Lab,** *Research Assistant | Medford, MA | February 2019 -Present*

* Studied function of SELPs through the medium of bacteria with post-doctoral student Fredrik Backlund in David Kaplan’s Biopolymer Engineering Lab
* 20 hours a week in the summer and 8 hours a week in semester. Performed Mutagenesis, Transformation, Mini-Prep, Digestion, Ligation, and Protein Purification procedures of bacterial DNA.

**The Portland Group,** *Warehouse Associate| Manchester, NH | June 2016 - August 2018*

* Worked as a warehouse associate for three summers, four days a week.
* Selected and packaged orders in an accurately and timely manner.
* Managed inventory within the warehouse by completing physical tasks.

**Elliot Hospital Emergency Room,** *Shadowing Student| Manchester, NH| 2016-2017*

* Shadowed Dr. Heffernan in Emergency Room and observed his daily routines with patients.
* Gained clinical experience interacting with patients, engaging in diagnoses and adapting to the ER atmosphere.

**Bedford Village Inn,** *Busser| Bedford, NH | September 2016 - July 2017*

* Worked with the head chef, transporting food from the kitchen to the table in a timely fashion.
* Assisted wait staff and dealt with customers to assure a pleasant dining experience
* Used teamwork and attention to detail to ensure the quality of work that was desired.

# **LEADERSHIP AND COMMUNITY SERVICE**

**Big Brother Big Sister***| Cambridge, MA| October 2017-Present*

* Served as mentor and formed relationship with little brother based on communication and trust, providing guidance and encouragement on academic and non-academic pursuits.
* Planned visits and activities 1-2 times per week during recess and lunch period.

**Boston Healthcare for the Homeless Program** *Volunteer| Boston, MA* | *October 2019-Present*

* Conducted surveys with patients regarding their experiences with primary care at the BHCHP clinic located at Boston Medical Center.
* Interacted closely with an underserved population and engaged with patients with varying health, behavioral health and addiction issues.

# **ATHLETICS**

**Varsity Baseball, Tufts University,** *pitcher | Medford, MA| August 2017- Present*

* Dedicated 15-20 hours/week during the offseason, and 30-35 hours/week in season. to team activities such as practices, lifts, conditioning, meetings and film sessions.
* Participated in a mentor program with first-year players to help acclimate them to college life

**Futures Collegiate Baseball League- Nashua Silver Knights,** *pitcher | Nashua, NH| June 2017- August 2019*

* Competed against premier college baseball talent in New England for 56 games over a two-month season for three summers

# **SKILLS, ACCOLADES, AND INTERESTS**

* *Skills:* General Lab Skills, Pipetting, Bedside Manner, Microsoft Excel, PowerPoint, Conversational Spanish
* *Accolades:* Deans List,IB Diploma Recipient, All-State Selection Baseball.
* *Interests:* Healthcare, Medicine, Clean Energy, Transportation, Interdisciplinary Science, Travel, Outdoors.