

# SAI LAKSHANYA RANGOON

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## EDUCATION

**The University of Tennessee, Knoxville,** Tickle College of Engineering Knoxville, Tennessee  
**Bachelor of Science in Biomedical Engineering, Junior** August 2022- May 2026  
GPA: **3.97 (Summa Cum Laude)** Minor: **Molecular Biophysics**

- Coursework: Calculus I, II and III, Differential Equations, Eng. Fundamentals-Physics, Computer solutions for Engineers (MATLAB, Excel, Robotics), Electronics and Circuits, Eng. Mechanics-Statics, Dynamics & Materials, Cellular and Molecular Biology, Physiology and Anatomy, Physics- Electricity and Magnetism, Matrix Computations, Computational thinking, Probability & Statistics, System Dynamics, Fluid Mechanics, Bioethics, Biomaterials

## EXPERIENCE

**Mechanical, Aerospace & Biomedical Engineering, Tickle College of Engineering** Knoxville, TN  
*Undergraduate Research Assistant* May 2024 –Present

- Mentored by Dr. Andy Sarles in research at the Bioinspired Materials and Transductions Laboratory
- Actively leading on a project that works on incorporating hydrogels into tissue-like polymer emulsions with potential applications in Drug Delivery, Tissue Engineering, Bio-integrated devices etc.

**Engineering Fundamentals (EF) Program, Tickle College of Engineering** Knoxville, TN  
*Undergraduate Teaching Assistant* Aug 2023 –Present

- Developed a collaborative learning experience in MATLAB and Robotics for increased student engagement
- Guided over 20 students weekly on technical and non-technical engineering topics and subjects.
- Supervised 20+ project teams across six sections in Robotics and MATLAB projects.

**Office of Undergraduate Admissions** Knoxville, TN  
*International Admissions Student Assistant* Feb 2023 –Present

- Leading the Global Ambassador Program and overseeing its initiatives for developing inclusion at UTK
- Implemented multiple projects involving GPA Scaling and University Benchmarking by NCAA standards.

**University of Hyderabad (UOH)** Hyderabad, India  
*Research Assistant* Dec 2022- Jan 2023

- Conducted bioanalytical research in the Translational Biology Laboratory, UOH.
- Spearheaded an enzyme extraction project on glioma mutations with guidance from Dr. Roy Karnati.
- Executed various wet laboratory techniques like Cell culturing, Cloning, Genetic Engineering, Protein Expression, Agarose Gel Electrophoresis, SDS gel PAGE etc.

**Aramark** Knoxville, TN  
*Catering Event Planner Intern* Sept 2022 – Dec 2022

- Organized various campus events and coordinated with clients as a part of Volunteer Catering
- Partnered with multiple offices on campus (student-led and UT-owned) for organizing events

## INVOLVEMENT

- **Vice-President**, Manthan-Indian Student Association @UTK
- **Member**, Women in Engineering @ UTK

## SKILLS & INTERESTS

- **Technical Skills:** MATLAB, Python, Java, AutoCAD & Blender (Basic-Intermediate knowledge), JMP
- **Languages:** Proficient in English, Telugu and Hindi
- **Personal Interests:** Artiste in Kuchipudi (a classical dance form of India) since the age of 5

## HONORS & AWARDS

- **Summa cum Laude (Dean's List with distinction) for 4 consecutive semesters**
- **International Volunteer Scholarship, Cook Grand Challenge Honors**
- **Nationally acclaimed rank and High School Valedictorian-Leaving Exams, India**