

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**