Ankitha Raman

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EDUCATION

Tufts University **June 2026 (expected)**
B.S., Double major in Computer Science and Biomedical Engineering (GPA: 3.95) *Medford, MA*

***Senior Capstone Project*:** Distributed Multi-Agent LLM Search Experiences, Microsoft Inc. (Current)

***Sample coursework*:** Machine Learning, Reinforcement Learning, Computer Security, Machine Structure, Computational Biology, Biological Systems*, Biomaterials & Regenerative Medicine* (*=Current)

Università di Pavia (Study Abroad) **Summer 2023**
Sample coursework: Introduction to Data Science, Italian 1 *Pavia, Italy*

WORK EXPERIENCE [Work authorization: US Citizen]

Kyron Learning **June 2025 - Aug 2025**
Software Engineering Intern *Cambridge, MA*
- Built MCP integration enabling LLMs to access Kyron APIs, including OAuth workflows
- This project was demoed in partnership with Instructure at the Instructurecon 2025 keynote

Hassoun Lab - Machine Learning + Systems Biology **July 2024 - present**
Undergraduate Researcher *Medford, MA*
- Developing a contrastive learning model to resolve compound synonyms in the KEGG biological database
- Experimenting with chunking strategies and vector embeddings for RAG with FAISS

Stanford University - School of Medicine, Department of Surgery **July 2023 - Aug 2024**
Student Research Intern *Stanford, CA*
- Streamlined data collection workflows for laparoscopic ventral hernia repair procedures
- Assisted in simulation surgeries, motion sensor testing, biometrics collection, and grant proposal editing

Kaplan Lab - Cellular Agriculture and Tissue Engineering **Feb 2023 - May 2024**
Research Assistant *Medford, MA*
- Conducted research on thermoplastic molding of silk and bacterial materials
- Gained experience in cell culture, tissue engineering and 3D printing

Bio-Techne - Advanced Cell Diagnostics **Jun 2021 - Aug 2021**
Student Intern *Newark, CA*
- RNA analysis on diseased liver samples using genetic markers and staining techniques

PROJECTS

- Flexion: Designed, programmed, and built a post-surgery recovery device for knee-replacement patients
- Project D.R.E.W.: Arduino-based toy to help autistic children identify emotions. Won a $1,000 Google grant and ranked in the Top-100 T-Mobile Changemaker Challenge list (among 400+ projects).

LEADERSHIP AND VOLUNTEERING

- President, Tufts Public Harmony: Running operations and logistics for a community service-based music organization with over 200 members. Performed for over 5000 residents at local venues.
- Mentor, Strong Women Strong Girls: Empowered 20 young girls as a mentor at a local elementary school.
- Founder & President, Gunn Biotechnology Club: Established still thriving high school club

SKILLS

- Programming: C, C++, Python, Java, Ruby on Rails, MATLAB
- Tools: Git, Docker, Cursor, Claude Code

INTERESTS

- Music: I am a singer-songwriter who plays multiple instruments, including guitar, piano, ukulele, and bass.
- Travel: Visited 141 sovereign UN countries (and counting!)