Neha Zacharia

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EDUCATION

University of North Carolina at Chapel Hill, Chapel Hill, NC May 2030
B.S. in Neuroscience; Medical Anthropology and Musical Theatre Minor

RELEVANT EXPERIENCE

Boston Children's Hospital, Remote June 2024-January 2026
Biomedical Research Intern

- Worked under the guidance of a Harvard Affiliated professor and with a team of medical students and biomedical engineers to analyze long term hemodynamic data in patients with non-functional ventricles, who had received the Fontan or Glenn surgery
- Trained in 3D Slicer software to construct segmentations of hearts post-surgery to observe blood flow simulation
- Independently completed segmentation for one-third of the latest study's patient cohort; listed as a co-author in the publication

American Red Cross, Cary, North Carolina June 2023-August 2025
Blood Donor Ambassador

- Volunteering 75 hours, checking in over 30 donors per shift, and providing support and assistance in the post-donation area
- Walked new donors through each step of the donation process, providing reassurance and a comfortable experience

Clinical Shadowing – Cary Family Eye Care, Cary, NC; Cleaveland Clinic, Cleaveland, OH June 2023-August 202
Shadow

- Worked with an ophthalmologist for over 65 hours in learning about the diagnosis and treatment of eye conditions in specialized areas including myopia and vision therapy; Gained exposure to process of designing custom orthokeratology lens
- Learned to interpret diagnostic data from machines including tonometers and topographers through accompanying technicians
- Learned clinical workflows and patient care in ICU and outpatient settings through exposure to thoracentesis and bronchoscopy procedures through shadowing a pulmonologist for nearly 30 hours; observed a respiratory therapist

Searstone Retirement Center, Morrisville, North Carolina October 2025-May 2026
Server

- Delivered meals to residents, ensuring dietary restrictions were strictly noted and followed, respective to each guest
- Provided meal-time assistance to residents who were unable to eat independently
- Organized and performed live holiday vocal music for residents

CHIP, UNC-Chapel Hill Starting January 2027
Intern

- Conduct a systematic literature review on AI-assisted contouring in prostate cancer radiotherapy planning
- Synthesize findings on how AI tools affect clinician workflow, accuracy, and trust in clinical decision-making
- Screen and critically appraise peer-reviewed studies, and summarize key themes for the research team

LEADERSHIP AND COMMUNITY INVOLVEMENT

Science Olympiad August 2024- February 2026
Member

- Won 1st place in the Chemistry Lab event at Regionals; completed full-length exam and lab analysis with a partner
- Won 3rd in the Microbe Mission at Regionals; completed a full-length exam
- Placed 1st in Chemistry Lab and Optics at the UNC Chapel Hill Invitational

Cadence August 2024- February 2026
Member

- Perform in a 15-member student a cappella group at 2 end-of-semester concerts in addition to other events per year
- Collaborate on song selection, arrangements, and choreography
- Balance blend and intonation across vocal parts through weekly rehearsals, 6+ hours

SKILLS AND CERTIFICATIONS

Proficient in 3D slicer platform and Autodesk Fusion platform
Microsoft Excel
Languages: English, Malayalam