

Nitish Bhamidipati

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EDUCATION

Cornell University, School of Engineering

Candidate for Bachelor of Science in Biomedical Engineering

Ithaca, New York

Expected Graduation May 2028

- **GPA:** 3.913/4.0

- **Relevant Coursework:** Introductory Biology, General Chemistry, Introduction to Biomedical Engineering, Calculus III

PROFESSIONAL EXPERIENCE

Cayuga Healthcare Consulting

Ithaca, New York

Analyst

February 2025 – Present

- Engaged in an 8-week New Member Education learning and presenting on the healthcare industry and current events
- Conducting competitor and market penetration analysis for a novel OA therapy breaking into the market

Cornell DEBUT

Ithaca, New York

Research and Development Analyst

November 2024 – Present

- Engaged in a project team that designs and presents original biomedical solutions that address healthcare issues
- Wrote and presented reports on an ultrasound sleeve for multiple sclerosis and a biodegradable smart bone scaffold

UGenome AI

Tucson, Arizona

Research Intern

May 2024 – August 2024

- Developed Natural Language Processing algorithm to categorize published articles related to specific NIH initiatives
- Gained exposure working in a biotechnology startup, attending investor meetings and weekly company growth meetings
- Presented project results to C-suite and provided recommendations on NLP integration into current product development

Chalasani Lab

Tucson, Arizona

Research Intern

October 2022 – July 2024

- Analyzed tissue samples with IF and IHC staining to evaluate change in expression of PD-L1, an anti-cancer biomarker
- Performed DNA analyses with PCR, western blots, and gel electrophoresis to investigate UV-induced DNA mutations
- Gained experience in academic research and the publication process, eventually publishing manuscripts in 2 journals

LEADERSHIP EXPERIENCE

IBDAware

Tucson, Arizona

Founder

January 2023 – May 2024

- Created 501(c)(3) registered non-profit providing support and fundraising for Inflammatory Bowel Disease (IBD)
- Partnered with a national IBD support organization to host walkathon fundraisers raising \$98,000+ for research
- Fundraised \$4,000 individually for a GI department at local hospital through running community charity events

Bit Buckets Robotics

Tucson, Arizona

Business Lead

September 2021 – May 2023

- Organized outreach showcasing STEM and robotics to 1,000+ underprivileged elementary and middle school students
- Founded 3 First Lego League teams at local middle schools, allowing them to design robots for competitive events
- Ran team's social media and website; designed unique team merchandise annually using Inkscape, Canva, and CustomInk

VOLUNTEER EXPERIENCE

Pima Heart and Vascular, Tucson Gastroenterology Specialists

Tucson, Arizona

Shadower and Volunteer

May 2021 – June 2023

- Observed patient interactions in clinic and procedures in OR; shadowed 2 specialties for 300+ hours total
- Helped prep OR rooms and translated basic medical spanish for patients at Nogales clinic along Arizona-Mexico border
- Gained hands-on experience working with patients and learning about medical treatment for cardiovascular and GI issues

PUBLICATIONS

- Change in tumor microenvironment and PD-L1 expression with rucaparib treatment in triple-negative breast cancer (*Journal of Clinical Oncology*)
- Topical nanoencapsulated cannabidiol cream as an innovative strategy combating UV-A-induced nuclear and mitochondrial DNA injury: A pilot randomized clinical study (*Journal of American Academy of Dermatology*)

ACHIEVEMENTS, SKILLS, INTERESTS & EXTRACURRICULARS

- **Achievements:** 1590 SAT/35 ACT, US Bio Olympiad Semifinalist, National Merit Scholar, Presidential Scholar Nominee
- **Skills:** English, Telugu, Spanish (Basic proficiency), Python, Java, R, Graphic and UX Design, CPR/AED/First Aid
- **Interests:** Mridangam (Indian Classical Music), Basketball, Tennis, Frisbee, NYT Games, Non-Fiction Books, Cooking
- **Extracurriculars:** Cayuga Healthcare Consulting, Alpha Iota Gamma Pre-Medical Fraternity, Big Red Raas, Saarang