

Trisha Raichura

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Education

Cornell University, College of Arts & Sciences

Bachelor of Arts in Computer Science

GPA: N/A

Ithaca, NY

Anticipated Graduation May 2028

Related Courses: Calculus I, Statistical Theory and Application in the Real World, Introduction to computing using Python, Actual Ancient Aliens

Technical Skills

- **Back-end Development Tools:** Python, Java
- **Front-end Development Tools:** HTML5 & CSS3
- **Microsoft Office Suite:** Excel, Word, & PowerPoint

Project Experience

Bioinformatics Module

December 2022 -February 2024

Student Researcher, University of Chicago, DePaul University

Remote

- Researched and analyzed microbial DNA sequence data using bioinformatics tools to study the gut microbiome.
- Developed bioinformatics modules to compare microbial compositions between healthy and special needs individuals.
- Implemented modules to introduce microbiomes, DNA, genes, and sequencing, enhancing understanding of microbial diversity.

Astrophysics Quasar Baseline Research

July 2023 – September 2023

Student Researcher, University of Washington

Remote

- Applied machine learning to extend quasar baselines and plot results using various telescopic filters to improve accuracy.
- Enhanced the fit of the Damped Random Walk (DRW) model by extending quasar light curves beyond 10 times the characteristic timescale.

Biofilm Region Segmentation using Machine Learning

December 2022 -March 2023

Student Researcher, DePaul University

Remote

- Developed machine learning algorithms to detect and segment biofilm regions from FISH-probed microscopy images.
- Analyzed biofilm structures to uncover patterns and insights using computational methods.
- Applied machine learning models to enhance image processing and biofilm structure analysis.

Extracurricular Activities

Cornell Association of Computer Science Undergraduates

Ithaca, NY

Member

September 2024-Present

- Attend monthly employer sessions learning about different companies and career paths within computer science
- Develop skills in areas such as HTML, JavaScript, and LaTeX through workshops and presentations

Exi-Education

Dubai, UAE

Founder

December 2019 - Present

- Founded EXI-Education, an inclusive platform providing resources and educational modules for supporting individuals of determination, their families, and professionals.
- Developed comprehensive content to bridge knowledge gaps and promote empathy towards people with special needs.
- Spearheaded initiatives to foster an inclusive society by offering accessible tools and information that celebrate the unique abilities of every individual.

Skills and Interests

Language Skills: English, French, Arabic, Tamil, Hindi

Interests: Professional Singing, Ice Skating, Pop Culture

Awards: UKMT Senior Gold Award, Outstanding Community Service Award (Consulate General of India), DMSL winner

Certifications: Georgia Institute of Technology Linear Algebra III, VCATI internship for Aeronautical Engineering, RSL Vocal Grade 8 Merit, Avogadro Chemistry Contest Distinction, LAMDA Solo Acting Grade 8 Distinction