

Vijval Nataraja

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EDUCATION

University of Texas at Dallas

Bachelor of Science in Biochemistry

Richardson, TX

Aug 2022 – May 2026

- Cumulative GPA: 3.7/4.0
- Relevant Coursework: Organic Chemistry I, General Chemistry I and II, Integral Calculus, Biology I

Collierville High School

Cumulative GPA: 3.9/4.0; Weighted GPA: 4.6/4.0; ACT: 35

Collierville, TN

Aug 2018 – May 2022

- Co-Founder of Stock Investment Club, National Honor Society, Cum Laude Society, JV Tennis
- Relevant Coursework: AP Microeconomics, AP Macroeconomics, AP Statistics, AP Calculus BC, AP Physics, AP Computer Science

WORK EXPERIENCE

University of Tennessee Health Sciences Center

Summer Researcher

Memphis, TN

May 2023 – Aug 2023

- Worked on identifying a small molecule inhibitor for the UHM domain in mutated splicing factors involved in myeloid neoplasms.
- Employed virtual screening as a primary method for discovering potential inhibitors.
- Utilized Maestro, Amber, and the ZINC database to curate a collection of potential inhibitors and then performed calculations to determine their binding affinity with the UHM domain.
- Performed HTRF assays to experimentally verify results.

University of Texas at Dallas

Summer Researcher

Richardson, TX

May 2022 – Aug 2022

- Involved in researching the unsolved protein structure of the TEAD family of proteins.
- Utilized AlphaFold, Amber22, and VMD to perform and analyze Molecular Dynamics simulations.
- Performed RMSD, RMSF, SASA, etc. data analyses on produced data.
- Received an award for a poster presentation at the Summer Platform for Undergraduate Research.

LEADERSHIP

India Association of Memphis

Vice President

Memphis, TN

Aug 2020 – Nov 2022

- Organized finances for youth events such as a city-wide Chess competition as well as tutoring programs.
- Helped navigate the planning and funding of events through the Covid-19 Pandemic.

Boy Scouts of America (Troop 64)

Senior Patrol Leader

Germantown, TN

Aug 2016 – Nov 2021

- Attended Troop meetings and assisted in organizing events and Scout activities.
- Organized a service project that benefited a local police station by communicating with City Officials, Police Officers and the Chief, local lumber suppliers, and over 25 volunteers who contributed over 180 person hours.
- Achieved the Rank of Eagle Scout.

ADDITIONAL INFORMATION

Skills: Molecular Dynamics, Laboratory Procedure, Analytical Chemistry, Communication, Presenting.

Computer: Proficient in Excel, PowerPoint, Python, Linux.

Interests: Piano, Basketball, DJing.