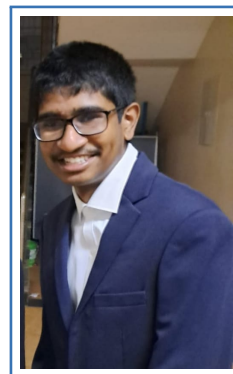


Rishith Sunil

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Professional Summary

Dual-degree student at IIIT Hyderabad pursuing BTech in Computer Science and MS in Computational Natural Sciences. Proficient in Python, C++, and data analysis tools with strong foundations in algorithms, programming, and computational science. Actively involved in research and student communities with a passion for technology, writing, and interdisciplinary learning.

Education

Expected 2030 **B.Tech in Computer Science + MS in Computational Natural Sciences, IIIT Hyderabad**, CGPA: 8.6 (1st Semester)
12th Grade (CBSE), *BVM Global @ Bollineni Hillside*, 480/500 (96%)
10th Grade (CBSE), *BVM Global @ Bollineni Hillside*, 484/500 (96.8%)

Technical Skills

Proficient Python, C++, C, SQL, NumPy, Matplotlib
Moderate Gaussian, VMD, BASH, NoSQL, HTML
Beginner CSS, JavaScript, NAMD

Projects & Research

Analysis of Dipeptide

- Utilized Gaussian, VMD, and NAMD to analyze protein properties
- Determined key parameters including RMSD, SASA, Rg, and Radial Distributive Function
- Enhanced understanding of protein structural dynamics and stability

Optimizing Diels-Alder Reaction

- Employed Gaussian and VMD computational tools for reaction analysis
- Calculated transition barrier and reaction energy of butadiene vs. ethylene
- Advanced understanding of fundamental organic chemistry mechanisms

CS50: Introduction to Computer Science

- Completed Harvard University's comprehensive computer science course
- Developed foundational knowledge in programming principles and software design
- Enhanced problem-solving skills through challenging assignments

Tic-Tac-Toe Project

- Developed functional game using C programming language
- Implemented efficient algorithms for game logic and player interaction
- Applied core programming concepts including arrays and conditional logic

Campus Involvement

ISAQC IIIT Society of Applied Quantum Computing (Research Team)
Ping College Magazine (Writing Team)
Literary Club Active Member
Gavaliers Executive Member
Club

Languages

English (Fluent), Malayalam (Fluent), Hindi (Fluent), French (Basic)