

ISHAAN MISRA

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Github: <https://github.com/ishaanms>



*currently pursuing 8th semester IIT-BHU

Objective

Inquisitive, energetic research oriented student skilled in leadership, with strong foundation in maths, programming logic and cross platform coding and interest in applying new technologies to advance the chemical research process. Seeking to expand my scientific knowledge in the growing field of computational chemical science and to leverage solid development skills with a focus on collaboration, communication, passion, and creativity as a researcher.

Academic Background

Degree	Discipline & Grade	Institution	Country	Date
Integrated Dual Degree (IDD) B. Tech +M. Tech 12 th (Senior Secondary Examination) 10 th (Secondary Examination)	Industrial Chemistry CPI till 6th semester – 9.49 /10 Science 95 % High School 97%	Indian Institute of Technology (IIT- BHU), Varanasi Amrita Vidyalayam, New Delhi Amrita Vidyalayam, New Delhi	India India India	2020 – Present (Expected 2025) 2020 2018

Industrial Experience (Position – As Intern)

Feb'24-Present	Pawzzitive Welfare Foundation -Business Development Intern <ul style="list-style-type: none">• Raised donations for various campaigns run by Pawzz for Stray Animals.• Collaborating with other interns leading to 10000+ donations and 50% more digital reach.
May'23-July'23	Technische Universität Darmstadt -DAAD WISE Summer Intern <ul style="list-style-type: none">• Created an atomistic and coarse-grained model for the molecular simulation of and determined the molecular roughness difference between the models for simple hydrocarbons• Acquisition of theoretical knowledge and practical know-how for implementing molecular simulations to solve material problems in chemistry, chemical engineering, and physics.
May-Aug'22	Defence Research & Development Organisation(DRDO) (Research & Development Establishment- Engineers) <ul style="list-style-type: none">• Working on physical and chemical properties of carbon fiber reinforced epoxy resin interleaved composites
Oct-Nov'21	Exposys Data Labs, Bengaluru -Full Stack Developer <ul style="list-style-type: none">• Worked as a web developer and contributed in creating a video-chatting app using react framework and socket IO
July-Dec'21	Exploratory Project <ul style="list-style-type: none">• Simulating differential equation like Lotka-Volterra equation and iodine clock reaction for chemical application• Exploring the use of logistic maps in chemistry

Description of Activities at Academic Institution.

2022	Published Research Article : BELOUSOV-ZHABOTINSKY REACTION: AN OPEN-SOURCE APPROACH DOI: https://doi.org/10.1007/s43538-022-00081-6 Guide: Prof. V Ramanathan
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Technical Projects

Mar-Apr'24	Web-based platform that allows users to create a thread, reply to a thread, and create/join communities of various users, providing a convenient and efficient platform for discussions and chat. The web-app can be viewed on: https://new-threads-repo-gywu5o49i-ishaanms-projects.vercel.app
Mar-Apr'22	I created a full stack picture sharing social media web application using reactjs and tailwind CSS for frontend and sanity for backend database. The web-app can be viewed on: https://shareme-clone-ism.netlify.app
Jan-July'22	Studying modelling cellular competitive growth pattern using python as a programming language
Jan- May'21	I created an oscillatory and non-linear differential equation simulator using ChartJS and ReactJS. It can be viewed on: https://nonlineardiffeqnsim.netlify.app

Area of Expertise

Atomic Modelling & Calculation Software	ChemDraw (basic), BURAI (basic), Quantum Espresso (basic), Gaussian, Gaussview, VOTCA, LAMMPS, MOLTEMPLATE
Programming Languages	Python along with NumPy & Pandas libraries, C++ ,JavaScript
Web Technologies	SQL (Basic & Intermediate), MongoDB(Basic & Intermediate), HTML, CSS, Reactjs, Nodejs, Nextjs, Redux

Certification Programs

Jul – Aug'21	Quollab – Software Development Virtual Experience Project <ul style="list-style-type: none">• Full stack development on MERN stack
Dec'21	Deeplearning .AI - Deep Learning Specialization <ul style="list-style-type: none">• Neural Network and Deep learning
Jan'22	UC San Diego - Drug Development Product Management Specialization <ul style="list-style-type: none">• learn the drug discovery process up to the filing of an Initial New Drug Application
Jan'22	Google <ul style="list-style-type: none">• Google UX Design. Foundation of user experience design• Google Data Analytics

Achievements

- Department Rank 1 at Department of Industrial Chemistry
- Obtained an A* grade in “**Classical Thermodynamics**” course(3rd semester) and “**Quantum chemistry, Group Theory, and Molecular Spectroscopy**” course(4th semester)
- 4 star Coder at Codechef
- HackerRank Badges (<https://www.hackerrank.com/ishaanmsr>)

C++	★★★★★
Python	★★★★★
Problem Solving	★★★★★

Additional Information

2021-22	>Member/ Mentor in “Desh Ke Mentor” a Govt of Delhi initiative
2022-23	>Member of Tech team of Science and Technology Council, (SnTC, IIT-BHU)
2022-23	>Member of the Student Alumni Interaction Cell, (SAIC, IIT-BHU)
2018-2019	>Headboy of School “Amrita Vidyalayam New Delhi” >Participated in “Ayudh National Leader Summit” – Amritapuri - Kerala
2006-2014	>Have undergone 8 years of formal training in “Tabla” >Hobbies include web development, listening to instrumental music, reading sci-fi novels, playing badminton

References

Prof. Dr. Venkatnarayan Ramanathan	Prof. Dr. Yogesh C Sharma
Assistant Professor	Head of Department
Department of Chemistry	Department of Chemistry
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