

Bhoomika Ojha

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Education

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|---|----------------|-------------|-------------------------|
| IIT Guwahati , B.Tech, Chemical Science and Technology | CGPA : 9.04/10 | 2016 - 2020 | <i>Guwahati, India</i> |
| AECS Magnolia , Senior Secondary, CBSE | 95.2% | 2014 - 2016 | <i>Bangalore, India</i> |
| National Hill View Public School , High School, CBSE | CGPA : 10/10 | 2002 - 2014 | <i>Bangalore, India</i> |

Work Experience

Goldman Sachs

SUMMER ANALYST

Bangalore, India

May 2019 - Jul 2019

Worked as a strategist with the FICC Divisional Strats team of the securities division.

- Implemented a strategy that reduced the firm's initial margin requirements.
- Enhanced an auto-booking tool which was used to realize a \$10M saving in bilateral risk in a single optimization cycle.
- Received a Pre-Placement Offer for commendable contributions across project engagements.

Acalvio Technologies

SUMMER INTERN

Bangalore, India

May 2018 - Jul 2018

Worked as a member of technical staff.

- Studied a product aimed at securing information within the perimeter of a target network.
- Simulated various cyber-attacks and exposed vulnerabilities to be fixed in the product.

Projects

Bachelor's Thesis

IIT Guwahati, India

WITH PROF. ARUN CHATTOPADHYAY, DEPARTMENT OF CHEMISTRY

Jul 2019 - Jun 2020

Worked towards detecting and probing extremely small concentrations of Raman active moieties by enhancing their Raman signals using SERS (Surface Enhanced Raman Spectroscopy) techniques.

Molecular Dynamics Simulation

IIT Guwahati, India

WITH PROF. ADITYA PANDA, DEPARTMENT OF CHEMISTRY

Jan 2018 - Jul 2018

Worked towards eliminating the need to carry out a reaction in a laboratory by making it possible to determine the interaction between reactants using computers.

- Executed the ab-initio method of molecular dynamics to locate a molecule in a force field with progressing time.
- Worked on developing a visual simulation of a multi-molecule reaction using Gaussian 09.

Honors and Awards

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|------|---|-----------------------|
| 2019 | Institute Merit Scholarship , Finished as the top performer from my discipline, in the academic year '18-'19 | <i>IIT Guwahati</i> |
| 2018 | Women Emerging in Finance , Finalist, invited to the on-site event and subsequent conference | <i>Goldman Sachs</i> |
| 2015 | Indian National Olympiads , Finalist, ranked 12th in Astronomy and 16th in Physics, in Karnataka | <i>IAPT with TIFR</i> |
| 2013 | Indian National Mathematical Olympiad , Finalist, ranked 16th in Karnataka | <i>ISI Bangalore</i> |
| 2012 | National Talent Search Examination , Among the top 1,000 students in India to be awarded the scholarship | <i>NCERT</i> |
| 2016 | CBSE Senior Secondary Examinations , Graduated as school topper in the science stream | <i>AECS Magnolia</i> |

Key Courses

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| Mathematical | Linear Algebra, Advanced Calculus, Numerical Methods in Engineering, Computation in Natural Sciences |
| Departmental | Environmental Chemistry, Petroleum and Petrochemicals, Industrial Chemistry, Nano-scale Science and Technology |
| Interdisciplinary | Medicinal Chemistry, Quantum Chemistry, Fluid Mechanics, Thermodynamics, Heat and Mass Transfer |

Positions of Responsibility

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| Jun 2018 - Jul 2020 | Editor in Chief , The Excited State, the departmental magazine | <i>IIT Guwahati</i> |
| Oct 2019 - Jun 2020 | Content Creator , TEDxIITGuwahati | <i>IIT Guwahati</i> |
| Feb 2018 - May 2018 | Student Representative , Codess India Initiative | <i>Microsoft IDC</i> |
| Nov 2016 - Feb 2017 | Co-ordinator of Delegate Affairs , IIT Guwahati Model United Nations | <i>IIT Guwahati</i> |
| Oct 2016 - Aug 2017 | Member, Organizing Committee , Industrial Conclave, Techniche | <i>IIT Guwahati</i> |

Extracurriculars

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| Sports | Represented the institute at the 52nd Inter IIT sports meet as a part of the basketball team |
| Music | Vocals and acoustic guitar for Octaves, the music club of IIT Guwahati |
| Interests | Contributed to events conducted by the astronomy and movie clubs of IIT Guwahati. Puzzle enthusiast. |