

Alifa Ara Heya | Curriculum Vitae

Troy, NY – USA

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Objective

I am an aspiring chemistry graduate with a strong passion for research and am dedicated to advancing knowledge in biochemistry and structural biology. I am eager to contribute to innovative work under the guidance of a dedicated professor, where I can further develop my scientific acumen and make meaningful contributions to cutting-edge research.

Education

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|---|---|
| University of Chittagong <i>Bachelor of Science in Chemistry</i> • CGPA: 3.54/4.00 (Last three year average is 3.63) • Major Courseworks: Biochemistry, Coordination chemistry, Organic reaction mechanism, Stereochemistry, Thermodynamics, Atmospheric chemistry, Organic synthesis, Electrochemistry, Environmental chemistry, Organometallic chemistry, Natural Products, etc. | Chattogram, Bangladesh 2016–2019 (Final exam held in 2021-2022) |
| Chittagong College <i>Higher Secondary Certificate</i> • GPA: 5.00/5.00 | Chattogram, Bangladesh 2015 |
| Dr. Khastagir Govt. Girls' High School <i>Secondary School Certificate</i> • GPA: 5.00/5.00 | Chattogram, Bangladesh 2013 |
| Dr. Khastagir Govt. Girls' High School <i>Junior School Certificate</i> • GPA: 5.00/5.00 | Chattogram, Bangladesh 2010 |

Additional Courses

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|---|--|
| Computer Aided Drug & Peptide Design <i>Course on Computational Chemistry</i> Learnt to dock, simulate and optimize drug and protein molecules using • PyRx • PyMol • Discovery Studio • FireDock • SwissPDB viewer | Red-Green Research Center 2022 |
| Mass Spectrometry Instrumentation & Application Training | Red-Green Research Center 2021 |
| • Became familiar with basic Mass spectrometry data interpretation and analysis of small molecules, clusters, proteins, polymers, and antibodies. | |
| Programming for Everybody <i>Coursera</i> • Got introduced with fundamental programming concepts, including data structures, using the Python programming language | University of Michigan 2020 |
| Excel Skills for Business <i>Coursera</i> • Learnt to design sophisticated spreadsheets, including professional dashboards, and perform complex calculations using advanced Excel features and techniques | Macquarie University 2020 |

Research interests

- Biochemistry
- Chemistry of Proteins
- Drug Design
- Cancer biology
- Structural Biology

Skills

Simulation & Visualization: Pymol, PyRx, Discovery Studio, Swiss PDB-Viewer

Programming: Fundamental Python Concepts

OS: Windows

Documentation: Microsoft Word, Microsoft PowerPoint, Google Docs

Spreadsheet: Microsoft Excel, Google Sheet

Languages: Bengali (Native), English (Professional proficiency), Arabic (Reading)

Web Languages: HTML, CSS

Graphics Design: Adobe Illustrator, Canva

Standardized Test Scores

Test of English as a Foreign Language (TOEFL)

Overall score: 98/120

09-09-2023

- Reading: 26, Listening: 21, Speaking: 25, Writing: 26

Experience

Industrial Tour

Learnt practical knowledge and techniques employed for the industrial production processes in different chemical industries.

2022

- Mohora Water Treatment Plant, WASA
- TSP Complex Limited, Chittagong
- Royal Cement Industry Ltd.
- Usmania Glass Sheet Factory

Achievements

Board General Scholarship

Higher Secondary Certificate, Chittagong Board

2015

Board General Scholarship

Secondary School Certificate, Chittagong Board

2013

Board Talent Pool Scholarship

Junior Secondary School Certificate, Chittagong Board

2010

Extra-Curricular Activities

ChemFusion

Education Administration Programs

2020-2022

- Runner-up in a writing competition
- Content Writer; wrote a number of articles related to chemistry in their blog

Chittagong University Research and Higher Study Society

A career club to aspire students to pursue higher study

2021-2022

- Associate Member, Graphic Designer

Dr. Khastagir Govt. Girls' High School

Essay competition

2008-2012

- Participated in several essay competitions and secured runner-up, 2nd, & 3rd positions.