

# KAZI MD ZUBAER

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## EDUCATION

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### Ball State University

M.S. in Chemistry (Ongoing)

GPA: 3.825 (21 credits)

### University of Dhaka

M.S. in Organic Chemistry with Thesis.

GPA: 3.66 out of 4.00 (3.87 WES)

Stood 8<sup>th</sup> in the combined merit list.

### University of Dhaka

B.S. in Chemistry.

CGPA: 3.04 out of 4.00

## RESEARCH EXPERIENCE

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### BS Researcher | University of Dhaka

- Worked in different laboratories for the final year project on "**Phytochemical investigation on Cauliflower & Cabbage**"
- Used different sophisticated machines like UV-Vis, IR, HPLC, etc.
- Did hot extraction and cold extraction and different types of chromatography techniques like TLC, CC.

### MS Researcher | University of Dhaka

- Worked in different laboratories for the MS Thesis on "**Chemical Investigation on The Leaves of *Corchorus olitorius L.***"
- Used different sophisticated machines like UV-Vis, IR, HPLC, GC, etc.
- Also used some other instruments like a potentiometer, polarimeter.
- Used different types of extraction processes.
- Defended thesis to a jury of 4 professors and department of ~30 researchers.

### MS Researcher | Ball State University

- Pursuing MS Thesis on "***Synthesis and Characterization of Bismuth-based MOFs (Metal-Organic Frameworks) Heterojunction with BiVO<sub>4</sub> for The Degradation of Persistent Organic Pollutants (POPs)***"
- Used different sophisticated machines like UV-Vis, FT-IR, HPLC, GC, etc.
- Also used some other techniques and instruments like UV-DRS, BET (Brunauer, Emmett and Teller), TEM, TGA (Thermogravimetric Analyzer), etc.

## LEADERSHIP/JOB EXPERIENCE

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### Graduate Teaching Assistant | Ball State University

- Proctoring exam
- Grading exam papers
- Instructing CHEM 101, 111 & 112 Labs.
- Drop-in satellite Tutoring

**Lecturer of Chemistry| Scholars' School & College (11.15.2018 to 11.25.2022)**

- Used a variety of learning modalities and support materials to facilitate the learning process and accentuate presentations.
- Engaged students and promoted intellectual curiosity through hands-on experiments, PowerPoint presentations, and mnemonics to provide a positive attitude towards scientific processes.
- Instructed students in the lab by teaching safety protocols for proper use of chemicals and safe disposal of hazardous materials.
- Evaluated and revised lesson plans and course content to achieve student-centered learning.
- Participated in department meetings to provide input to colleagues about student achievement and improvement.
- Arranged syllabus, developed a schedule, and determined reading list for varied courses simultaneously, giving students appropriate time to complete assignments and absorb information.
- Held weekly office hours to work with struggling students one-on-one and increase GPAs.
- Communicated frequently with parents, students, and faculty to provide feedback and discuss instructional strategies.

**Analytical Chemist | Eskayef Pharmaceuticals Ltd. (01.06.2017 to 14.11.2018)**

- Performed analysis of pharmaceutical finished products and raw materials using various methods to test for purity.
- Calibrated and maintained laboratory spectrometers and chromatographs.
- Developed methodologies to identify pesticide residues in pharmaceutical products.
- Troubleshoot equipment adjustments to meet and maintain safety, output, and quality expectations.
- Modified and adapted standard methods and procedures to solve analytical problems.

**Quality Control Officer | Popular Pharmaceuticals Ltd. (02.08.2016 to 31.05.2017)**

- Performed analysis of pharmaceutical finished products and raw materials using various methods to test for purity.
- Calibrated and maintained laboratory spectrometers and chromatographs.
- Maintained written documents for the analysis
- Got training on Standard Operation Procedures (SOPs)

**Vice President | Dhaka University Students' Association of Uttara (DUSAU)**

- Participated in different programs arranged by the association.
- Helped to solve different kinds of problems associated with the organization.
- Participated in different kinds of social activities e.g., distributing warm clothes to the poor, helping street children to learn their ABC, etc.
- Tackled different kinds of obstacles with knowledge and real-time situations.

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**SKILLS**

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<b>Computer:</b>	Proficiency in programming with HTML, CSS, Bootstraps, JavaScript, Photoshop.
<b>Language:</b>	Bangla (Native), English (2 <sup>nd</sup> language),
<b>Instruments:</b>	HPLC, UHPLC, UV-Vis, FT-IR, Polarimeter, Potentiometer, Karl-Fisher Titrator (KF Titrator), GC.