

SUMAIYA

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EDUCATION

Khulna University of Engineering & Technology

March 2016 to Feb 2020

Bachelor of Science (B. Sc.) in Computer Science and Engineering

Overall CGPA: Distinction (3.35/4.0) |(Last 60 credits: 3.57/4.0)

WORK EXPERIENCE

Vertical-innovations Ltd.

Feb 2021 - Present

Full Stack Developer

Dhaka, Bangladesh

I am currently working on a software company as a developer. There, I'm responsible for Android (Flutter) Developing. Aside from my responsibilities as an Android Developer, I also worked on Web development as a PHP developer.

RESEARCH INTEREST

Computer Vision, Natural Language Processing, CBIR, Image Segmentation, Image Detection, Image Enhancement, Image Retrieval, Machine Learning, Machine Learning Algorithms.

PUBLICATIONS

- **Title:** Enhancement of resulting image search engine(ERISE) by content based image retrieval system.
Sumaiya & MD Armanuzzaman
Published In: 2020 IEEE Region 10 Symposium (TENSYMP).
- **Title:** Color Correction by QAB (Quantum Particle Swarm Optimization-Ant Colony Optimization Back Propagation) method.
Sumaiya & MD Armanuzzaman.
Accepted in: The 16th International Conference on Computer Science and Education (ICCSE 2021).
- **Title:** Deblurring of Underwater Image Search Engine (DURISE) by Content-Based Image Retrieval System.
Sumaiya & MD Armanuzzaman.
Accepted in: 5th International Conference on Electrical Engineering and Information Communication Technology (ICEEICT).
- **Title:** Soft Error Tolerance using Horizontal, Vertical, Diagonal and Seven Queen Parity.
Sumaiya, Mouly Dewan & Muhammad Sheikh Sadi.
Published In: 2019 IEEE International Conference on Signal Processing, Information, Communication Systems (SPICSCON).
- **Title:** Tolerating Soft Errors with Horizontal-Vertical-Diagonal-N-Queen (HVDNQ) Parity.
Muhammad Sheikh Sadi, Sumaiya, Mouly Dewan & Atikur Rahman.
Published In: Journal of Electronic Testing SpringerLink(03 May 2021).

COMPETITIVE PROGRAMMING

Codeforces Solved 210+ problems.(Handle: tabassum.sumaiya)

TECHNICAL SKILLS

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|---------------------------------|---|
| Programming Language | C, C++ [4 years], Java (Core and J2EE) [2 years]. |
| Scripting Language | Python [6 months], PHP [6 months], javascript, Dart[4+ months]. |
| Web Technologies | HTML, CSS, PHP, Jquery, ajax. |
| DBMS | Oracle, MySQL. |
| Software Version Control | Git , Github. |
| IDE | Android studio, Eclipse. |
| Framework | Spring MVC, Flutter. |
| 2D/3D Gaming Platform | Unreal Engine, Unity. |

PROJECT WORK

- **Quiz_App** | Android Development Project at KUET (2017)
A mobile application that has several quiz options like, audio quiz, image quiz, gaming quiz, GK quiz question bank to restrict questions flash.
Language: Java | Tools: Android Studio
- **Car Website** | Web Development Project at KUET (2018)
A website for selling and buying car for both buyers and sellers.
Language: PHP,HTML,CSS | Tools: XAMPP
- **SpringProject** | [Spring Project] Maven Spring MVC Project.(Personally done)
A spring project to add , delete and update customer information in the database.
Language: Java | Tools: Eclipse
- **Movie_Rating** | Movie rating system management |Database management systems Project at KUET (2018)
An attractive approach for movie rating systems for viewers.
Language: SQLQuery | Tools: Oracle, Toad
- **IKnowOS** | IKnow OS |Own Operating System Design (2018)
An operating system that can do several works.
Language: UNIX shell | Tools: Ubuntu

NOTABLE VOLUNTEERING AND MEMBERSHIP

- **SGIPC** – Special Group, Interested in Programming Contest *(May 2017 to Feb 2020)*
Conducted a number of workshops on C Programming and Algorithms. Arranged and volunteered in several programming contests within the campus.
- **Bit2Byte.KUET** - Software Development student organization *(May 2017 to Feb 2020)*
Conducted a number of workshops on software development.
- **Dream** – Voluntary Blood Donation Society of KUET *(May 2016 to March 2020)*
Organized blood grouping campaign and managed blood for poor and helpless patients.

APTITUDE TEST SCORES

- **GRE** – Quantitative Reasoning: **164** (86 percentile) Test taken on 30th September, 2021

AWARDS AND RECOGNITIONS

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| Intra KUET Idea Contest (2018) | Our team (Revolution) won third Place. |
| KUET Career Club Hackathon (2017) | Our team (Three Idiots) won second Place. |
| BitFest Poster Presentation, KUET (2019) | We have gotten the runners up Place. |