

NOSHIN ULFAT

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WORK EXPERIENCE

Software Development Engineer, IQVIA

June 2023 - Now

Working as front end developer

EDUCATION

Bachelor of Science in Computer Science and Engineering

March 2018 - May 2023

Bangladesh University of Engineering and Technology

CGPA: 3.83/4.00

Higher Secondary Certificate (HSC)

July 2015 - July 2017

Rajshahi College, Rajshahi

GPA: 5.00/5.00

Secondary School Certificate (SSC)

January 2013 - April 2015

Govt P.N. Girls' High School, Rajshahi

GPA: 5.00/5.00

TEST SCORES

TOEFL

September, 2024

Reading-22, Listening-26, Speaking-24, Writing-27

Total: 99/120

PUBLICATIONS

Using large language models to generate junit tests: An empirical study

Siddiq, M.L., Santos, J., Tanvir, R.H., Ulfat, N., Rifat, F.A. and Lopes, V.C.

28th International Conference on Evaluation and Assessment in Software Engineering

An Experimental Analysis on the Sensitivity of the Most Widely Used Edge Detection Methods to Different Noise Types

Raihan, M., Ulfat, N., and Saqib, N.

March 10-12, 2022. International Conference on Computing Advancements (ICCA'22).

Dakter Bari: Introducing Intermediary to Ensure Healthcare Services to Extremely Impoverished People

Rahman, M.A., Rashed, R., Purabi, S.A., Ulfat, N., Chellappan, S. and Islam, A.A.A.

2021, ACM on Human-Computer Interaction, 5(CSCW1), pp.1-30.

UNDERGRADUATE THESIS

Enhancing the RGB Cover Image Selection Process Using Genetic Algorithms for Steganography

Different approaches and combinations of Genetic Algorithm were analyzed to make the encoding within digital image more secure, resulted in improved PSNR than frequently used existing methods.

CURRENT PROJECTS

Multilingual Software Security Assessment

University of Notre Dame | George Mason University

September 2024 - Present

Supervisor: Dr. Joanna C. S. Santos (University of Notre Dame)

PROFESSIONAL PROJECTS

Ravenclaws Company Website Development

- A full-stack web app allowing users to buy desired items, subscription-based on reviews, sales, and admin recommendations

- Used Word press, CSS, Photoshop, and PHP with Agile software development

ACADEMIC PROJECTS

Code Comment Classification [Python, Bert, FastText, Word2Vec] Level-4, Term-2

A code comment classifier with the ability to classify comment sentences into categories, trained to extract features using pre-trained models such as Bert, FastText, and Word2Vec.

Hall Management System [Node.js, Javascript, React, MongoDB] Level-4, Term-1

A web application for managing essential functionalities of a dormitory. This application helps students, provost, and staff to complete and keep track of dormitory-related processes easily.

Artificial Intelligence [C++] Level-3, Term-2

Implemented Artificial Intelligence in N Puzzle game, Mancala game, and Hidden Markov Model.

Compiler [C++, Flex, Bison, EMO 8086] Level-3, Term-2

This compiler is a computer program that translates computer code written in C into Assembly language.

Adding Memory Managing and Scheduling in Xv6 [C] Level-3, Term-2

Xv6 is an MIT os codebase. The memory management system is not up to date. Efficient memory managing and lottery scheduling were applied here.

Smart Cart [C, Arduino, ATmega32, Atmel Studio, Proteus 832] Level-3, Term-1

Prototyped a working model of a smart cart: an autonomous cart that follows a point of interest by automatic collision detection and handling with a team of 3 people. Designed a fully functional software simulation and later built a small hardware prototype using ATmega32, Arduino, and other relevant components.

Travelling Agency BD [Python, Django] Level-2, Term-2

A website for providing best tour plans to tour travelers, including hotel booking, transport management, and other facilities.

UNDERGRADUATE COURSEWORKS

Machine Learning, Artificial Intelligence, Information System Design, Software Engineering, Compiler, Theory of Computation

ACHIEVEMENTS

Undergraduate degree with Honours, BUET (2023)

For outstanding academic performance

Deans's Award, BUET (2020, 2021, 2022)

For outstanding academic performance

Technical Scholarship (2017-2023)

Scholarship for regular engineering students

BUET Architecture Admission Test (2017)

Acquired merit position 1 in the whole country

RUET Architecture Admission Test (2017)

Acquired merit position 1 in the whole country

Government Scholarship, Bangladesh (2017-2023)

For outstanding performance in Higher Secondary School Certificate

7th Chemistry Olympiad (2017)

Acquired position 4 in national level

Government Scholarship, Bangladesh (2015-2027)

For outstanding performance in Secondary School Certificate Examination

SKILLS

Languages	Python, C, C++, Java, Shell, Typescript, Assembly
Web Technology	Angular, React, HTML, CSS, Bootstrap
Database	Oracle, MySQL, MongoDB
Operating System	Windows, Linux(Ubuntu)
Image Editors	Adobe Photoshop, Adobe Illustrator
Version Control	Github, GitLab
Frameworks	Django, JavaFX, WordPress
Technical Writing	LaTeX, Beamer, Overleaf
Problem Solving	CodeForces, HackerRank, LeetCode
Tools	MS Office Suit
Others	NS3, XV6, GNPLOT