GARS CS Application

GSMS ID: 16146896

UNIVERSITY OF ALBERTA
DEPARTMENT OF COMPUTING SCIENCE

CS Application Details

Research Interests

Area of Study

Software Engineering, HCI, Machine Learning, Database Systems, Software Systems, Computer Graphics, Computer Vision

Potential Supervisors

Sarah Nadi,Eleni Stroulia,Abram Hindle,Denilson Barbosa,Anup Basu

Financial

Scholarships Held

N/A

Scholarships Applied For

N/A

Need for Financial Support

Yes

GPA

GPA	GPA Scale	Normalized GPA	Institution
3.29	4.00	3.29	Bangladesh University of Engineering and Technology

GRE

GRE Date

2019-09-17

Verbal	Quantitative	Analytical	GRE CS
144	162	3.0	306

Citizenship

Country of Citizenship	Immigration Status
Bangladesh	*INT*

Research Experience

I worked under the supervision of Dr. A. B. M. Alim Al Islam, Professor, BUET in software engineering and Human-computer interaction research. I designed and developed an android application for tuition media named “TuitionHub” using google flutter framework. The app is currently available in the Google Play store. The tutors can find tuitions based on their necessity at the same time guardians and students will also find suitable tutors. In this “TuitionHub” software we are analyzing the behavior of the tutor and guardians. Based on the analysis we are suggesting tuitions to the tutors so that they can get suitable tuition with ease. We are trying to analyze the current education situation in Bangladesh based on the tuitions data. We can differentiate the more educated and less educated regions based on this data. We can also analyze the individual data of the tutors and guardians/students. Overall we can analyze the individual personality of the tutors, students and guardians regarding tuitions through this app which can be utilized as a scalable educational data mining software in our context. I also worked on another research project named "Dual-Sim" where tried to predict the sim which will cost less in phone calls and SMS.

I also worked under the supervision of Dr. M. Sohel Rahman, Professor, BUET in Natural Language Processing research. I have worked in making optical character recognition system for Bangla language.

Publications

Publications
Title: Smart Door Unlock System with Android App(Under Review) Journal: International Journal of Advanced Science and Technology

Awards

Education History

Degrees

Degree	University	Date (Awarded/Expected)
Bachelor of Science in Computer Science and Engineering	Bangladesh University of Engineering and Technology	2018-10-18

Courses Taken

Masters Thesis Title

Thesis Abstract

Statement of Purpose

New software and technologies always fascinate me as these are some ways one can depict their thoughts, ideas and creativity to the world. As a computer science major at undergraduate level, I developed sound knowledge on software engineering and development. However, I believe, for having a deep insight into this domain my existing knowledge is not sufficient. Pursuing a Master's in computer science precisely in software engineering, code recommender system, API misuse detection, mining software repository research, information retrieval on source code, software testing, research in UI/UX designing or other relevant field with a focus on building more efficient and effective software with lesser or I can say no bugs will be a stepping stone towards fulfilling my long cherished dream.

During my undergrad life I have done a lot of software project in different academic courses. I had often assisted many of my friends in their projects. My interest in software engineering study always inspire me to do such things to know more about software development. Towards the road, the real strikethrough of software engineering experience I got when I was appointed as an intern in BigGO limited during my senior year. Here, for the first time I got some industrial experience and learned the proper architecture (front-end and back-end) of building a large-scaled system. I was appointed me as a full stack developer in a senior engineer position after my graduation. In this job I was introduced to the human factors responsible for a professional project. Currently I am serving as a Lecturer in Southern University Bangladesh. Besides Teaching here I am sharing my industrial knowledge in different software project.

Recently I have submitted a journal manuscript named "Smart Door Unlock System with Android App" in the International Journal of Advanced Science and Technology. In this research, we implemented a low-cost and affordable IoT device connected to the house door and operated by an android application. The door can be unlocked by face recognition of the owner and also by answering some security questions. Our objective of the research was to design a home security system with enhanced security and affordable cost. I am also doing work on health-care research named "An android application detect pneumonia using fuzzy logic". In this research we have implemented an android application that will detect pneumonia using fuzzy logic. Our system gives a great accuracy level in detecting pneumonia comparing to the original medical test. I am supervising two students in their final year software project "HomePharma: An online medicine ordering system". It's an online medicine ordering system where we try to connect the clients with the pharmacy owner to get the emergency medicine immediately. My project and research details can be found in my personal website(https://shusmoy108.github.io/).

Given my deep research interest in Software Engineering, Human-Computer Interaction and System Research as well as my working experience in a number of diverse software projects, the next step for me is to pursue the next highest academic accolade, i.e., Master's from a reputed rigorous program that can shape me into a complete independent researcher. I believe that the research opportunities and resources present at University of Alberta will allow me to fulfill this dream by providing the facilities to learn from world-class professors and work with qualified fellow colleagues. To be more specific, I am highly motivated in collaborating Professor Sarah Nadi's work on software engineering. Her work on API Misuse Detection (MUbench and MUdetect project), Code Recommender System fascinate me a lot. I am also interested in working with Professor Abram Hindle's intersection of software engineering and computer music, Mining Software Repository Research, Information retrieval on source code. Professor Eleni Stroulia's work on technical and socioeconomic concerns around building software systems for the purpose of service delivery in SSR group also presents interesting research opportunities. Therefore, I am certain that the University of Alberta is the right place for me to begin the expedition of lifetime learning and contribution.

TEST TAKER SCORE REPORT

Note: This report is not valid for transmission of scores to an institution.

Shusmoy Chowdhury

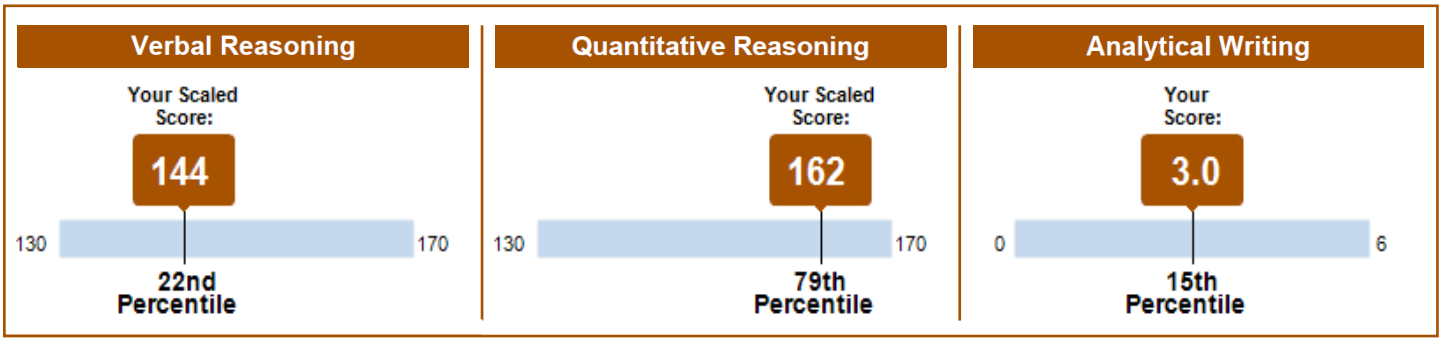
Address: Al Farook Tower, Chandgaon, Chittagong, Bangladesh

Email: 1305108.sc@ugrad.cse.buet.ac.bd
Phone: 880-1819648302
Date of Birth: May 13, 1996
Social Security Number (Last Four Digits):
Gender: Male
Intended Graduate Major: Computer Science (0402)

Most Recent Test Date: September 17, 2019

Registration Number: 5911573
Print Date: May 4, 2020

Your Scores for the General Test Taken on September 17, 2019



Your Test Score History

General Test Scores

	Verbal Reasoning		Quantitative Reasoning		Analytical Writing	
Test Date	**Scaled Score**	**Percentile**	**Scaled Score**	**Percentile**	**Score**	**Percentile**
September 17, 2019	144	22	162	79	3.0	15
May 15, 2019	138	8	162	79	3.0	15

Subject Test Scores

You do not have reportable test scores at this time.

Your Score Recipient(s)

Undergraduate Institution

Report Date	Institution (Code)	Department (Code)	Test Title	Test Date

Note: This report is not valid for transmission of scores to an institution.

Shusmoy Chowdhury

Most Recent Test Date: September 17, 2019

Date of Birth: May 13, 1996

Registration Number: 5911573
Print Date: May 4, 2020

Designated Score Recipient(s)

Report Date	Score Recipient (Code)	Department (Code)	Test Title	Test Date
December 11, 2019	Carnegie Mellon University (2074)	COMPUTER SCIENCE (0402)	General Test	September 17, 2019
September 27, 2019	University of Central Florida CSDCAS (7407)	COMPUTER ENGINEERING (1201)	General Test	September 17, 2019

About Your *GRE*® Score Report

Score Reporting Policies

With the *ScoreSelect*® option, you can decide which test scores to send to the institutions you designate. There are three options to choose from:

- Most Recent option – Send your scores from your most recent test administration
- All option – Send your scores from all administrations in the last five years
- Any option – Send your scores from one OR as many test administrations in the last five years (this option is not available on test day when you select up to four FREE score reports)

Scores for a test administration must be reported in their entirety. Institutions will receive score reports that show only the scores that you selected to send to them. There will be no special indication if you have taken additional GRE tests. See the *GRE® Information Bulletin* for details. The policies and procedures explained in the Bulletin for the current testing year supersede previous policies and procedures in previous bulletins.

Scores will be sent to designated score recipients approximately 10-15 days after a computer-delivered test and 5 weeks after a paper-delivered test. If your scores are not available for any reason, you will see “Not Available” in Your Test Score History.

GRE test scores are reportable according to the following policies:

- For tests taken prior to July 1, 2016, scores are reportable for five (5) years following the testing year in which you tested (July 1 – June 30). For example, scores for a test taken on May 15, 2015, are reportable through June 30, 2020. GRE scores earned prior to August 2011 are no longer reportable.
- For tests taken on or after July 1, 2016, scores are reportable for five (5) years following your test date. For example, scores for a test taken on July 3, 2016, are reportable through July 2, 2021.

Note: Score recipients will only receive scores from test administrations that you have selected to send to them.

Percentile Rank (% Below)

A percentile rank for a test score indicates the percentage of test takers who took that test and received a lower score. Regardless of when the reported scores were earned, the percentile ranks for General Test and Subject Test scores are based on the scores of all test takers who tested within the most recent three-year period.

Retaking a GRE Test

You can take the *GRE*® General Test *once every 21 days*, up to *five times* within any continuous rolling 12-month period (365 days). This applies even if you canceled your scores on a test taken previously. You can take the paper-delivered GRE General Test and *GRE*® Subject Tests as often as they are offered.

Note: This policy will be enforced even if a violation is not immediately identified (e.g., inconsistent registration information) and test scores have been reported. In such cases, the invalid scores will be canceled and score recipients will be notified of the cancellation. Test fees will be forfeited.

Note: This report is not valid for transmission of scores to an institution.

Shusmoy Chowdhury

Most Recent Test Date: September 17, 2019

Date of Birth: May 13, 1996

Registration Number: 5911573
Print Date: May 4, 2020

For More Information

For information about interpreting your scores, see *Interpreting Your GRE Scores* at **www.ets.org/gre/understand.**

For detailed information about your performance on the Verbal Reasoning and Quantitative Reasoning sections of the computer-delivered GRE General Test, access the free GRE Diagnostic Service from your ETS account. This service includes a description of the types of questions you answered right and wrong, the difficulty level of each question, and the time spent on each question. This service is available approximately 15 days after your test administration and for six months following your test administration.

If you have any questions concerning your score report, email GRE Services at **gre-info@ets.org** or call 1-609-771-7670 or 1-866-473-4373 (toll free for test takers in the U.S., U.S. Territories and Canada) between 8 a.m. and 7:45 p.m. (New York Time).