Syed Raiyan Nuri Reza

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VISIT MY WEBSITE @ https://srr408.github.io/

BIO & OBJECTIVE

Being in possession of a BSc in Computer Science from a preeminent institute of higher education, New York University, I bring to the table a global perspective and international experience built atop a demonstrably solid technical foundation in computer science further buttressed by coursework in physics and mathematics.

It is only natural now to seek a full time position in the form of internship or employment at a reputable organization in the nascent but surely growing and continuously emerging tech and other relevant sectors in Bangladesh.

EDUCATION

UNDERGRADUATE:
New York University   May, 2023
Bachelor of Science, Computer Science, CGPA: 3.3 / 4.0
Relevant Coursework: Software Engineering, Functional Programming, Information Visualization, Data Structures, Basic Algorithms, Computer System Organization

A-LEVEL:
Physics, A*/A+ • *Mathematics*, A*/A+ • *Business Studie*s, A

IGCSE/GCSE/O-LEVEL:
Physics, A*/A+ • *Mathematics*, A*/A+ • *Additional Mathematics*, A • *Business Studies*, A*/A+ • *Economics,* A*/A+
English Language, A*/A+ • *Information & Communication Technology*, A

SAT I:
Reading & Writing, 710/800 • *Mathematics*, 710/800 • *Total Score*, 1420

SAT SUBJECT TESTS:
Mathematics II, 760/800 • *Physics*, 790/800

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Haskell, JavaScript
Operating Systems: Windows, Linux
Other Tools: Django, D3 Library of JavaScript, LaTex, Pandas, Numpy, Matplotlib, HTML, CSS

PROJECTS

My Personal Website (HTML, CSS, JavaScript)   Jan, 2024 - Present
Programmed and deployed a fully functional lightweight web page with modern UI/UX standards and conventions.
- Identified an appropriate template for a professional portfolio page.
- Programmed substantial modifications to the template for effective communication of education, experiences, and skills.
- Incorporated modifications based on user feedback — changed download button to be more intuitive, devised a solution to host multiple formats of a file.
- Actively identifying new enhancements.

Qalb+: A HealthCare Web Application Prototype For United Arab Emirates (Django)   Aug, 2022 - Dec, 2022
Collaborated with my four team members on all stages of building a web application prototype letting patients meet doctors online.
- Established the project's name, Qalb+.
- Designed the class diagram and one of the sequence diagrams that guided the project.
- Built the feature letting prospective doctors upload their credentials as static files (diploma, license, etc) to the app database.

Prototyping A Toy Context Free Parser for Chinese Grammar (Python, Haskell, LaTex)   Aug, 2022 - Dec, 2022
Collaborated with my teammate, Anh Nhat (Daisy) Huynh, and thesis advisor, Professor Paul-André Melliès on parsing algorithms.
- Authored most of the written reports and the literature review that were required by the reviewers.
- Verified that the toy Earley Parser coded by Huynh obtained the theoretical best-case run time of O(n) for certain inputs.

[A Sketch of A Pandemic: Information Visualization of COVID in USA](#) (D3 Library of JavaScript)   Aug, 2020 - Dec, 2020
Created an interactive webpage that contextualized the spread of the pandemic in the USA in a global setting.
- Identified credible information sources on Our World In Data and Kaggle for the project.
- Programmed interactive and accurate views for displaying COVID cases and mortality for 228 countries in the form of treemap and bar charts.
- Devised a choropleth map to show the time evolution of the pandemic across the USA from Jan, 2020 to Dec, 2020.

EXPERIENCE

[Private Tutoring, Introductory Programming (Python, LaTex):](#)   6th Jun, 2022 - 12th Aug, 2022
Client Information: Student at International University of Bangladesh; Dhaka, Bangladesh
- Built a highly individualized curriculum tailored to the client's strengths and weaknesses.
- Designed questions to hone algorithmic thinking and conceptual understanding.
- Created an active learning environment by lively lectures, regular class discussions, quizzes, and assignments.
- Reported to my student's guardians with detailed written progress reports on the student's performance.
- Typeset all assignments, quizzes, homeworks, and progress reports in LaTex for professionalism in presentation.
- Client obtained one of the highest grades in their university course.

ACTIVITIES

[Undecidability, Uncomputability, and Unpredictability Essay Contest](#)   April, 2020
Foundational Questions Institute
- Competing against physicists, engineers, philosophers and other such professionals, co-authored a well rated essay on the topic of intersection of Gödel's incompleteness theorems, the halting problem, and unpredictability in quantum mechanics.

ARTICLES

[Where are the women in STEM?](#), Dhaka Tribune   22nd May, 2018
[The Ascent of Man](#), Dhaka Tribune   4th May, 2017

LANGUAGES

English, IETLS Academic Band Score of 8.0 • **Persian**, Conversational • **Bangla**, Conversational • **Mandarin**, Limited

DETAILED PERSONAL INFORMATION

FATHER'S NAME: *SYED AMIL BATUL MUSAL REZA*
MOTHER'S NAME: *SYEDA TOUFATUR REZA*
DATE OF BIRTH: *02/09/1995*
NATIONAL ID NUMBER: *9100661116*
ADDRESS: *UTTARA RAJUK APARTMENT PROJECT , HOUSE# 11A(TURAG), ROAD-2/C, BLOCK-A, DHAKA, BANGLADESH*

REFERENCES

Professor [Joseph Nereo Giacomelli](#), Assistant Professor of History, Duke Kunshan University
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