



Syed Raiyan Nuri Reza

(+880) 1706-562505 • srr408@nyu.edu • www.linkedin.com/in/raihan-reza • <https://github.com/srr408>
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 Studies, 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.

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 Independent University, 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

English Language Partnership with Ukrainian Refugees

29th, April, 2024 - Present

NYU Alumni Association

Organizing conversation sessions with a Ukrainian refugee to help them develop their conversational skills in English as part-time volunteer work.

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, IELTS 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

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

Kunshan, Jiangsu, China • (0086) 18917607095 • **jk498@duke.edu**

Nusmila Lohani, Assistant Features Editor, The Business Standard

Dhaka, Bangladesh • (00880) 1911347296 • **lohani1990@gmail.com**

Professor **Xianbin Gu**, Assistant Professor of Practice in Computer Science, New York University

Shanghai, China • **xg7@nyu.edu**