



# 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 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.

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#### 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.

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#### 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.

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#### ARTICLES

**Where are the women in STEM?**, Dhaka Tribune

22nd May, 2018

**The Ascent of Man**, Dhaka Tribune

4th May, 2017

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#### LANGUAGES

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

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#### 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

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#### REFERENCES

Professor **Joseph Nereo Giacomelli**, Assistant Professor of History, Duke Kunshan University  
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