



## CONTACT

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## EDUCATION

### NEW YORK UNIVERSITY

Class of 2023  
CGPA: 3.3/4.0

### A-LEVELS

Physics	A* or A+
Mathematics	A* or A+
Business Studies	A

### IGCSE/O-LEVELS

Physics	A* or A+
Mathematics	A* or A+
Additional Mathematics	A
Information & Communication Technology	A
Business Studies	A* or A+
Economics	A* or A+
English Language	A* or A+

### SAT I

Reading & Writing	710/800
Mathematics	710/800
Total	1420/1600

### SAT SUBJECT TESTS

Mathematics II	760/800
Physics	790/800

## TECHNICAL SKILLS

Programming Languages	Python, C++, JavaScript Haskell, C, SQL
Libraries, Tools, Frameworks	Django, Pandas, Latex Mathplotlib, D3, HTML CSS

## LANGUAGES

English	IELTS Academic Band Score of 8.0
Farsi/Persian	Conversational
Bangla	Conversational
Mandarin	Limited

## PERSONAL INFO

Full Name	Syed Raiyan Nuri Reza
Date of Birth	22/09/1995
Mother's Name	Syeda Taufatur Reza
Father's Name	Syed Amil Batul Musa Reza
Permanent Address	Atiya, Deldaur, Atia Dorage - 1900, Tangail
Current Address	House# 11A (Turag), Road Road 2/C, RAJUK Apartment Project, Uttar Sector 18, Dhaka, Bangladesh

# SYED RAIYAN NURI REZA

## SUMMARY

Hold a **BSc in Computer Science** from **New York University** with a wide project portfolio spanning from web development to theoretical work on parsing algorithms. Seeking internship and employment opportunities in the roles of front-end web development, software engineer, data analyst, quality assurance engineer, teaching assistant, and research assistant.

Breadth of project portfolio demonstrates fluency in **Python, C++, JavaScript** familiarity with **OOP** and **functional programming paradigm** and showcases experience using **Django, Mathplotlib, Numpy, Pandas** and **D3 library of JavaScript**. Technical skills complemented by a **global perspective, cross-cultural understanding**, and **excellent fluency in English** as manifest in noteworthy performance in a scientific essay contest, authorship of nuanced op-eds at a leading English newspaper, and ongoing voluntary work helping Ukrainian refugees improve their English conversation skills. Therefore, will combine and leverage technical know-how with in-demand soft skills to a good effect at a modern ambitious institute.

## PROJECTS

### Personal Website

Jan 2024 - Present

*Programmed and deployed a fully functional lightweight web page with modern UI/UX standards and conventions.*

Language & library & tools: JavaScript, CSS, HTML

- 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+

Aug 2022 - Dec 2022

*Collaborated with my four team members on all stages of building a web application prototype letting patients meet doctors online in the region of United Arab Emirates.*

Language & library & tools: Django, Python, C++, HTML

- Branded the project as Qalb+, a name that resonates with an Arab audience.
- Designed the class diagram and one of the sequence diagram that guided the project.
- Built the feature letting prospective doctors upload their credential files as static files (diploma, license, etc) to the app database.

### A Toy Context Free Parser for Chinese Grammar

Aug 2022 - Dec 2022

*Collaborated with my teammate, Anh Nhat (Daisy) Huynh, and thesis advisor, Professor Paul-André Melliès on parsing algorithms.*

Language & library & tools: Haskell, Python, Latex

- Authored most of the written technical reports and literature review that were required by the reviewers.
- Designed the first presentation of progress report.
- Coded an empirical test to verify that the toy Earley Parser written by Huynh obtained the theoretical best-case run time of  $O(n)$  for certain inputs.

### A Sketch of A Pandemic

Aug 2020 - Dec 2020

*Created an interactive webpage that contextualized the spread of the pandemic in USA in a global setting.*

Language & library & tools: D3 library of JavaScript, HTML.

- 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.

## ACTIVITIES

### English Language Partnership With Ukrainian Refugees

Apr 2024 - Present

*New York University 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

Apr 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.

### Op-ed Writing

Jul 2016 - Mar 2018

*Dhaka Tribune*

Authored op-ed articles on a wide range of topic in the view of contemporary events— from discussing the ethics of tech to writing an obituary to the late Stephen Hawking.

## REFERENCES

### Professor Xianbin Gu

*Assistant Professor of Practice in Computer Science at New York University*

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### Professor Joseph Nereo Giacomelli

*Assistant Professor of History at Duke Kunshan University*

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### Nusmila Lohani

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