

SYED RAIYAN NURI REZA

VOLUNTEER @ NYU ALUMNI PROGRAM | CS @ NYU '23

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 Bangladeshi 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 a theoretical work on parsing algorithms that was the foundation of a prototype Earley Parser implemented in Python.

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 Program

Conducting 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 innovation in pedagogy to writing an eulogy 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

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

LANGUAGES

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