



Syed Raiyan Nuri Reza

BSc in CS @ New York University

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ADDITIONAL CONTACT

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SUMMARY

In possession of a **Bachelor of Science in Computer Science** from **New York University** with a strong sense of community responsibility showcased in on-going **part-time volunteer work** through NYU Alumni Program and sound technical skills demonstrated through a wide project portfolio. Web development in native **JavaScript**, theoretical work on **parsing algorithms**, web application prototype in **Django**, and information visualization in **D3 library of JavaScript**.

EDUCATION

New York University, Class of 2023

Bachelor of Science, Computer Science, CGPA: 3.3 / 4.0 on a US 4.0 Scale | 87 – 89% on a typical US grade scale

Relevant Coursework: Software Engineering, Functional Programming, Information Visualization, Data Structures, Basic Algorithms, Computer System Organizations.

A-levels

Physics, A*/A+ | Pure Mathematics, A*/A+ | Business Studies, A

IGCSE/O-Levels

Physics, A*/A+, | Mathematics, A*/A+ | Additional Mathematics, A | Economics, A*/A | Business Studies, A*/A
Information and Communications Technology, A/A | English, A*/A

SAT

Math, **710/800** | English, **710/800** | Total, **1420/1600**

SAT Subjects

Math II, **760/800** | Physics, **790/800**

PROJECTS

Personal Website (HTML | CSS | JavaScript)

Jan, 2024 - Present

Deployed **a fully functional lightweight web page with modern UI/UX standards** that earned praise by the likes of **PhD student from a top CS program, a software engineer at a reputable firm, and other qualified professionals.**

- Identified an appropriate template for a professional portfolio page.
- Programmed substantial modifications to the template for effective communication of education, experiences, and skills.
- Resolved design flaws utilizing user feedback — changed download button to be more intuitive, devised a solution to host multiple formats of a file.

Qalb+ (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 in the region of **United Arab Emirates**, a work that was received well and within top percentile of submissions.

- Designed the class diagram and one of the sequence diagrams that guided the project.
- Built the optional feature letting prospective doctors upload their credentials as static files (diploma, license, etc) to the app database, thereby, going above and beyond what was required for the work.

Context Free Parser for Chinese Grammar (Python | Haskell | LaTeX)

Aug, 2022 - Dec, 2022

Collaborated with my teammate, Anh Nhat (Daisy) Huynh, and thesis advisor, Dr. Paul-André Melliès, on a theoretical work on parsing algorithms, **a very advance topic for undergraduate students**.

- Authored most of the written reports and the literature review that were required by the reviewers.
- Proved completeness for the Earley Parser algorithm, a challenging proof.
- 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 (JavaScript | D3.js)

Aug, 2020 - Dec, 2020

Created **an interactive webpage** that contextualized the spread of the pandemic in the USA in a global setting, a project that was within the top percentile of submitted works on **information visualization**.

- Researched credible information sources on Our World In Data and Kaggle for the project.
- Coded up interactive and accurate views for displaying COVID cases and mortality for 228 countries in the form of treemap and bar charts that balance expressiveness with accuracy.
- Devised a solution to show the time evolution of the pandemic across the USA from Jan, 2020 to Dec, 2020 in the form of a choropleth map.

TECHNICAL SKILLS

Languages: Python, C, C++, Haskell, JavaScript, SQL

Framework & Tools & Others: Django, D3.js, LaTeX, Pandas, NumPy, Matplotlib, HTML, CSS

ACTIVITIES

English Language Partnership With Ukrainian Refugees

Apr, 2024 – Present

New York University Alumni 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

Co-authored a well rated for an essay competition on the topic of intersection of **Gödel's incompleteness theorems**, **the halting problem**, and **unpredictability in quantum mechanics** that primarily drew scientists, philosophers, PhD students and other such individuals.

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

DETAILED PERSONAL INFORMATION

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 2/C, RAJUK Apartment Project, Uttara Sector 1

LANGUAGES

English, IELTS Overall Band Score of 8.0 | Farsi/Persian, Conversational | Bangla, Conversational | Mandarin, Limited