



SCAN TO VIEW WEBSITE

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EDUCATION

NEW YORK UNIVERSITY  
CLASS OF 2023  
CGPA: 3.3/4.0

CURRENT WORK

- Jan 2024 - Present  
Personal Website
- Apr 2024 - Present  
Volunteer Work @ NYU Alumni Association Program

TECHNICAL SKILLS

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

Libraries, Tools, Frameworks  
Django, Pandas, Latex, Matplotlib, D3, HTML, CSS, Numpy

LANGUAGES

English, IELTS Academic Score of 8.0  
Farsi, Conversational  
Bangla, Conversational  
Mandarin, Limited

RAIYAN 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, Matplotlib, 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 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 Mellies 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 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.