



SCAN TO VIEW WEBSITE

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EDUCATION

NEW YORK UNIVERSITY

Class of 2023
CGPA: 3.3/4.0

CURRENT WORK

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

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

RAIYAN 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 Mellies 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 eulogy to the late Stephen Hawking.