

# Raiyan Reza

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VISIT MY WEBSITE @ <https://srr408.github.io/> or SCAN QR CODE AT THE BOTTOM

## EDUCATION

**New York University**, NYU Shanghai, Shanghai, China  
Bachelor of Science, Computer Science, CGPA: 3.3 / 4.0

May, 2023

*Relevant Coursework: Software Engineering, Functional Programming, Information Visualization, Data Structures, Basic Algorithms*

## TECHNICAL SKILLS

**Programming Languages:** Python, C, C++, Haskell, JavaScript  
**Operating Systems:** Windows, Linux  
**Other Tools:** Django, D3 Library of JavaScript, LaTeX, Pandas, Numpy, Matplotlib, HTM, CSS

## PROJECTS

**My Personal Website** (HTML, CSS, JavaScript) Jan, 2024 - Present

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

- Identified an appropriate template for a professional portfolio page.
- Programmed substantial modifications to the template for effective communication of education, experiences, and skills.

**Qalb+: A HealthCare Web Application Prototype For United Arab Emirates** (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.*

- Established the project's name, Qalb+.
- Designed the class diagram and one of the sequence diagrams that guided the project.
- Built the feature letting prospective doctors upload their credentials as static files ( diploma, license, etc) to the app database.

**Prototyping A Toy Context Free Parser for Chinese Grammar** (Python, Haskell, LaTeX) Aug, 2022 - Dec, 2022

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

- Authored most of the written reports and the literature review that were required by the reviewers.
- 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: Information Visualization of COVID in USA** (D3 Library of JavaScript) Aug, 2020 - Dec, 2020

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

- 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.

## EXPERIENCE

**Private Tutoring, Introductory Programming (Python, LaTeX):** 6th Jun, 2022 - 12th Aug, 2022

*Client Information: Student at International University of Bangladesh; Dhaka, Bangladesh*

- Built a highly individualized curriculum tailored to the client's strengths and weaknesses.
- Designed questions to hone algorithmic thinking and conceptual understanding.
- Created an active learning environment by lively lectures, regular class discussions, quizzes, and assignments.
- Reported to my student's guardians with detailed written progress reports on the student's performance.
- Typeset all assignments, quizzes, homeworks, and progress reports in LaTeX for professionalism in presentation.
- Client obtained one of the highest grades in their university course.

## ACTIVITIES

**Undecidability, Uncomputability, and Unpredictability Essay Contest** April, 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.

## ARTICLES

**Where are the women in STEM?**, Dhaka Tribune

22nd May, 2018

**The Ascent of Man**, Dhaka Tribune

4th May, 2017

## LANGUAGES

**English**, IELTS Academic Band Score of 8.0 • **Persian**, Conversational • **Bangla**, Conversational • **Mandarin**, Limited

