



Raiyan Reza

Intern @ UniMed UniHealth Group | BSc in CS @ New York University

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🌐 <https://srr408.github.io/> OR SCAN QR CODE

EDUCATION

New York University, NYU Shanghai, Shanghai, China, Class of 2023

Bachelor of Science, Computer Science, CGPA: 3.3 / 4.0

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

EXPERIENCE

Intern, IT Department, [UniMed UniHealth Group](#), Dhaka, Bangladesh Oct, 2024 - Present

- Coordinating with the IT team to identify and contribute to the different works done by the IT department: computer networking, database management, hardware support, etc.

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 a **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.

[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.

LANGUAGES

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