

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, GPA: 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

Operating Systems: Windows, Linux

Other Tools: Django, D3 Library of JavaScript, LaTeX, Pandas, Numpy, Matplotlib, Shyft, HTML, CSS

EXPERIENCE

Short-Term Data Analytics Project (Python, Shyft, Pandas, Matplotlib):

12th Dec, 2023 - 25th Dec, 2023

Client Information: Confidential; Client Works At A Major Energy Company In Europe.

- Collaborated with an expert in the energy production field on benchmarking hydrological models.
- Programmed methods for statistical analysis (e.g: Nash–Sutcliffe efficiency) and graphing information in a strict deadline.
- Verified that the statistical analysis and graphing was time feasible: 8759 data points processed in 0.62 s +/- 0.07 s in the working dataset, indicative of scalability for a dataset 1000 times larger.

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.

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

