

Raiyan Reza

(0880) 1706-562505 • srr408@nyu.edu • www.linkedin.com/in/raiyan-reza • https://github.com/srr408 • https://srr408.github.io/

EDUCATION

New York University, NYU Shanghai, Shanghai, China

Spring 2023

Bachelor of Science, Computer Science, GPA: 3.3

Relevant Coursework: Software Engineering, Functional Programming, Information Visualization

TECHNICAL SKILLS

Coding Languages: Python, C, C++, Haskell

Operating Systems: Windows, Linux

Other Tools: D3 Library of Javascript, Django, LaTeX, Pandas, Numpy, Shyft

EXPERIENCE

Data Analytics (Python, Shyft, Pandas):

12th Dec., 2023 - 25th Dec., 2023

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

- Devised a solution for collecting and compiling hydrological model and observation data from Shyft TimeSeries to a Panda framework in the very limited time given by the client.
- Programmed the interface for computing Nash-Sutcliffe measures between observation data and hydrological model data.

Private Tutoring in 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.
- Carefully curated and wrote questions typeset in Latex with clear emphasis on algorithmic thinking for regular classwork, quizzes, and tests to create an active learning environment.
- Reported to my student's guardians with detailed progress reports commenting on the student's progress, performance, and other necessary information.
- Client obtained the highest grade in their class.

PROJECTS

Prototyping A Toy Context Free Parser for Chinese Grammar (Python, Haskell)

Fall 2022

- Communicated and collaborated with my teammate and thesis advisor, Professor Paul-André Melliès, across different time zones.
- Wrote the detailed reports and literature reviews.
- Built a Python Prototype of an Earley Parser.

Qalb+: A HealthCare Web Application Prototype (Django)

Fall 2022

- Collaborated with my team on brainstorming ideas for the intended project.
- Established the project's name, Qalb+.
- Wrote some of the key documentation required for the project.
- Designed the class diagram and one of the sequence diagrams that would guide the project.
- Built the feature for uploading files to the web application prototype.

A Sketch of A Pandemic: Information Visualization of COVID in USA (D3 Library of JavaScript)

Fall 2020

- Identified the then ongoing COVID pandemic in the USA as an interesting topic for information visualization.
- Organized the information sources to be visualized and filtered some of the data on Excel to produce the final data set.
- Devised and programmed the appropriate and intuitive views to communicate the covid cases and mortality of different countries and motivate comparison with the COVID situation in the USA.

ARTICLES

"Farewell, Professor": Dhaka Tribune, Dhaka, Bangladesh

18th, Mar., 2018

- A national op-ed article written in tribute to the late Stephen Hawking.