

# Raiyan Reza

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## EDUCATION

**New York University**, NYU Shanghai, Shanghai, China

May, 2023

Bachelor of Science, Computer Science, GPA: 3.3

*Relevant Coursework: Software Engineering, Functional Programming, Information Visualization*

## TECHNICAL SKILLS

**Programming Languages:** Python, C, C++, Haskell

**Operating Systems:** Windows, Linux

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

## EXPERIENCE

**Short-Term Data Analytics Project(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 that can collect data in a Panda framework for statistical analysis, for example 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.

## LANGUAGES

- English (Fluent)
- Persian/Farsi ( Conversational)
- Bangla. ( Conversational)

## INTERESTS

- Sci-fi & Fantasy Novels, Video Games, Chess, Programming, Physics, Writing