



# Ritesh Saha

## Web Developer

Proficient in building full stack websites , enjoys competitive programming and learning about new data structures and algorithms.

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📍 Siliguri, India

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📞 8617487305

📄 [ritesh7766.github.io/](https://github.com/ritesh7766)

🐙 [github.com/Ritesh7766](https://github.com/Ritesh7766)

## EDUCATION

### B.C.A(Hons)

#### University Of North Bengal

08/2019 - 2022

Siliguri, West Bengal

##### Courses

- Discrete Mathematics
- Data Structures and Algorithms
- Linear Algebra
- DBMS
- Graph Theory
- Python programming
- Probability Theory
- Design and analysis of algorithms

### I.S.C

#### Emmanuel English School

05/2017 - 05/2019

85.4%

##### Courses

- Physics
- Biology
- Chemistry
- Computer Science

### I.C.S.E

#### Emmanuel English School

05/2015 - 05/2017

88.8%

##### Courses

- Mathematics
- English/Hindi
- Physics/Chem/Bio
- Computer Applications

## EXTRACURRICULARS

### Cadet

#### National Cadet Corps

2015 - 2017

##### Achievements

- 'A' certificate

### International / National Science olympiads

#### Silverzone / SOF

##### Achievements

- State rank 83 in iTHO 2016 (Silverzone)
- State rank 140 in iTHO 2015 (Silverzone)
- City rank 26 in 19th NSO (Science Olympiad Foundation)

### Interested in

Competitive programming, Data science, Gaming, Calisthenics

## SKILLS

Python

Flask

C++

C

Java

HTML

CSS

Javascript

MySQL

Pandas

Plotly

SQLite3

Ajax

## PERSONAL PROJECTS

### Trading/Portfolio management web app

- A full stack web application built with flask, sqlite3, ajax, plotly and yahoo finance. Allows users to quote various stocks and manage their portfolio. This web app also estimates future trends of a stock. For more info view my portfolio.

### Blogging web application

- A full stack web application built with flask. Allows users to write and view blogs. This main objective of this project was to improve my understanding of the flask framework. To view code and demo check out my portfolio.

### Data structures and algorithms template library

- In this project I try to create my own template library of classical data structures and algorithms. Written entirely in c++, the main objective of this project is to get a deep understanding of data structures and algorithms and enhance my problem solving skills. This project can be viewed in my github.

### Trees and Graphs

- Exploring various tree and graph algorithms and their applications. Written in python on jupyter notebook.

### Responsive web pages.

- A collection of responsive web pages written in pure html, css and javascript. Demo and code can be found on my portfolio.

### Numerical analysis

- Implementation of various numerical methods for finding roots and interpolation. In this project I use C for heavy computations and python for I/O and threading. Python's CDLL module allowed me to use precompiled C code in python.

## CERTIFICATES

### Algorithms for searching sorting and indexing

coursera ( Certificate can be viewed in portfolio)

### Trees and Graphs: Basics

coursera ( Certificate can be viewed in portfolio)

### Programming in Java

NPTEL ( Certificate can be viewed in portfolio)

## LANGUAGES

English

Full Professional Proficiency

Hindi

Full Professional Proficiency