Ritesh Saha

Siliguri, West Bengal
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About

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

Profile

- Github
- Linkedin
- Leetcode
- Portfolio

Education

Bachelor Of Computer Application: B.C.A(Hons)

University of North Bengal • Siliguri, West Bengal
07/2022
CGPA upto 5th Sem: 9.124

Relevant Courses: *Discrete Mathematics, Graph Theory, Probability Theory, Linear Algebra, Automata Theory, Data Structures and Algorithms, Design and analysis of algorithms, Digital Electronics. Computer System Architecture, Data Science, DBMS*

I.S.C

Emmanuel English School • Malda, West Bengal
05/2019
Grade: 85.4%

Subjects: *Physics, Chemistry, Biology, Computer Science, English, Hindi*

I.C.S.E

Emmanuel English School • Malda, West Bengal
05/2017
Grade: 88.8%

Subjects: *Mathematics, Physics, Chemistry. Biology, Computer Applications, English, Hindi*

Skills

Proficient in data structrues and algorithms, working with relational databases and building user interfaces,

Backend: *Python, C, C++, Java*

Database: *MySQL, SQLite3*

Frontend: *HTML, CSS, Javascript, Ajax*

Frameworks / Libraries: *Flask, Plotly, Pandas, yfinance*

Personal Projects

Trading/Portfolio management web app (Demo, Code):

- *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 (Demo, Code):

- *A full stack web application built with flask. Allows users to write and view blogs. The 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 (Code):

- *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 improve my problem solving skills. This project can be viewed in my github.*

Trees and Graphs (Code):

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

Responsive web pages (Demos, Codes):

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

Numerical analysis (Code):

- *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.*

Certifications

- *Algorithms for Searching, Sorting, and Indexing (Coursera)*
- *Trees and Graphs: Basics (Coursera)*
- *Programming in Java (NPTEL)*
- *Data Structures and Algorithms: Deep Dive Using Java (Udemy)*

Extracurricular activities

National Cadet Corps

Achievements:

- *'A' certificate*
- *Participated in Combined Annual Training Camps*

International / National Science Olympaids

Achievements:

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

Kickboxing

Achievements:

- *2nd West Bengal State Inter-School Kickboxing Championship Jan 2016 (Bronze medal)*
- *District Inter-School Kickboxing Championship Oct 2016 (Bronze medal)*

Languages

English: *Full Professional Proficiency*

Hindi: *Native Language Proficiency*

Interested in

Competitive Programming, Data Science, Gaming, Calisthenics
