

Ritesh Saha

Siliguri, West Bengal
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About

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

Profile

- [Github](#)
 - [Linkedin](#)
 - [Leetcode](#)
 - [Portfolio](#)
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Experience

Junior Full Stack Developer

EnableCap • Kolkata, West Bengal
06/2022 - 06/2023

Skills

Proficient in data structures and algorithms, working with and designing relational databases, and building user interfaces.

Backend Development: Python, C, C++, Java

- **Backend Frameworks & Libraries:** Django, Flask, Celery, Django Rest Framework, Knox authentication, Numpy, Pandas, Numba, Plotly

Database: MySQL, SQLite3

- **Database Skills:** Temporary Relationships, Relational Algebra, Normalization, Database Design, Query Optimizations

Frontend: HTML, CSS, Javascript, Ajax

- **Frontend Libraries:** DataTables, Chart.js, SweetAlerts, Alertify

Server and Deployment:

- **Web Servers:** Nginx
 - **Application Servers:** Gunicorn
 - **Caching:** Redis
 - **Operating Systems:** Linux
 - **Cloud Services:** Amazon Web Services (AWS), E2ENetworks
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Certifications

- Algorithms for Searching, Sorting, and Indexing ([Coursera](#))
- Trees and Graphs: Basics ([Coursera](#))
- Dynamic Programming, Greedy Algorithms ([Coursera](#))
- Data Science Foundations: Data Structures and Algorithms ([Coursera](#))
- Mathematics for Machine Learning: Linear Algebra ([Coursera](#))

- Mathematics for Machine Learning: Multivariate Calculus ([Coursera](#))
 - Programming in Java ([NPTEL](#))
 - Programming, Data Structures And Algorithms Using Python ([NPTEL](#))
 - Data Structures and Algorithms: Deep Dive Using Java ([Udemy](#))
 - Problem Solving (Intermediate) ([HackerRank](#))
 - Problem Solving (Basic) ([HackerRank](#))
 - SQL (Advanced) ([HackerRank](#))
 - SQL (Intermediate) ([HackerRank](#))
 - SQL (Basic) ([HackerRank](#))
 - Python (Basic) ([HackerRank](#))
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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. (email: riteshsaha214@gmail.com, password: 123456. Use this credentials for a more detailed view)

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.

Stock-Trend-Prediction ([Code](#)):

- A minor project where I use yfinance and TensorFlow to predict stock trends.
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Education

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

University of North Bengal • Siliguri, West Bengal

07/2022

CGPA: 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*

Extracurricular activities

National Cadet Corps

Achievements:

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

International / National Science Olympiads

Achievements:

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

Kickboxing

Achievements:

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

English: Full Professional Proficiency

Hindi: Native Language Proficiency

Interested in

Competitive Programming, Data Science, Gaming, Calisthenics
