

SAYAN PAL

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[GitHub](#) | [LeetCode](#) | [Linkedin](#)

Education

Netaji Subhash Engineering College
B.TECH IN INFORMATION TECHNOLOGY GPA: 9.4

KOLKATA
2019 - 2023

Experience

PRATILIP | WEB DEVELOPER

KOLKATA | APR 2022 - JUL 2022

Worked with HTML, CSS, bootstrap and UI tools under a team. Worked as a Frontend Web developer. **creating webpage layouts, writing code, editing website content, and making adjustments based on client feedback.**

Open Source Geospatial Foundation (OSGeo) | Volunteer

Remote | Feb 2022 - Present

Contributed to the pgRouting project under the OSGeo organization. Still contributing new features and functionalities to the codebase.

Implemented Graph Algorithm in pgRouting, a Postgres extension that extends the PostGIS / PostgreSQL geospatial database to provide geospatial routing functionality. The project mainly involved working with C++, Boost Graph Library, PostgreSQL and unit testing using pgTAP.

Coding Blocks | Teaching Assistant

REMOTE | May 2020 - AGUST 2020

Worked as a Teaching Assistant for the Data Structures and Algorithms with C++ course. Solved more than 250+ problems while clearing doubt of students.

SkillVertex | Intern

REMOTE | MAR 2022 – JUN 2022

WORKED as a web developer trainee. Worked on different websites.

Skills

Programming Languages: C++, C, Python
Libraries/Frameworks: CMake, Boost C++, Flask, Latex
Tools / Platforms: Git, GitHub, Firebase, Sphinx C++
Databases: PostgreSQL, MySQL
Other Languages: HTML, CSS, JavaScript, Bash, SQL

Projects / Open-Source

pgr_edgeColoring | [Link](#)

C++, C, SQL, Sphinx, pgTAP

Contributed one new function: "pgr_edgeColoring" in pgRouting, an opensource repository with more than 850+ stars and 320+ forks.

Maze Generator | [Link](#)

C++

Implemented various 2D maze generation algorithms such as Kruskal's algorithm and Prim's algorithm. Implemented a CLI as well as GUI interface along with exporting capability.

SORTING VISUALIZATION | [Link](#)

HTML, CSS JAVASCRIPT, BOOTSTRAP

a web development project which is used to visualize the sorting algorithms and performs the operation of algorithms step by step as the algorithms works like Bubble Sort, Selection Sort , Merge Sort etc.

QUIZ KHELO | [LINK](#)

HTML,CSS,JAVASCRIPT,BOOTSTRAP

a web development project which is used to visualize the the quiz app Which is made by HTML,CSS, JAVASCRIPT AND BOOTSTRAP.

SWG ACADEMY | [LINK](#)

HTML,CSS,JS,REACT,BOOTSTRAP,UI,UX

A FULL REAL LIFE WEBSITE WHICH IS CONNECTED WITH REAL SERVER.DEVELOPED BY HTML,CSS,JS,REACT,BOOTSTRAP,HOSTINGER,UI/UX DESIGN.

Honors & Awards

ACM ICPC 2020: Secured 99th place in online Regional contest.

SIH 2020: Semi- fnalists of the Smart India Hackathon organized by Central Government of India.

10 Days of Code: Winner of a 10 Days long Coding contest organized by Coding Blocks

StackTracer: Stood 2nd position in intra-college Bug xing coding competition.

HACKERRANK CERTIFICATION IN PYTHON ,C++.