

VEENIT KUMAR

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GitHub | **Linkedin** | **Portfolio** | **HackerRank** | **CodeChef**

EDUCATION

Netaji Subhash Engineering College Kolkata, India
Bachelor of Technology Computer Science and Engineering *GPA: 8.63/10.0 (Till 7th Semester)* 2018 - 2022
(Expected)

EXPERIENCE

Google Summer of Code (GSoC) | Mentor Remote | March 2022 - Present

- Mentoring for pgRouting Project under OSGeo.
- pgRouting extends the PostGIS / PostgreSQL geospatial database to provide geospatial routing functionality.

Google Summer of Code (GSoC) | Student Developer Remote | May 2021 - September 2021

- Worked with the organization: OSGeo (Open Source Geospatial Foundation).
- 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.

Open Source Geospatial Foundation (OSGeo) | Volunteering Remote | Feb 2021 - Present

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

Coding Blocks | Teaching Assistant New Delhi, India | May 2019 - July 2019

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

SKILLS

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

PROJECTS / OPEN-SOURCE

pgr_edgeColoring | Link *C++, C, SQL, Sphinx, pgTAP*

Contributed one new function: "pgr_edgeColoring" in pgRouting, an open-source repository with more than 850+ stars and 320+ forks. Edge Coloring is an algorithm used for coloring the edges for the vertices in the graph. It is an assignment of colors to the edges of the graph so that no two adjacent edges have the same color.

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.

HONORS & AWARDS

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

SIH 2020: Semi-finalists 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 fixing coding competition.

Speaker: FOSS4G 2021 Buenos Aires, Argentina

50K LoC!: Maintained almost exhaustive repositories on GitHub, containing more than 50k Lines of Code.