

# Veenit Kumar

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## LINKS

**GITHUB** [github.com/veenits123](https://github.com/veenits123)

**PORTFOLIO** [veenits123.github.io](https://veenits123.github.io)

**CODECHEF** [codechef.com/users/im\\_noob99](https://codechef.com/users/im_noob99)

**LINKEDIN** [linkedin.com/in/veenits123](https://linkedin.com/in/veenits123)

**HACKERRANK** [hackerrank.com/veenits123](https://hackerrank.com/veenits123)

## EDUCATION

**NETAJI SUBHASH ENGINEERING COLLEGE | BACHELOR OF TECHNOLOGY COMPUTER SCIENCE AND ENGINEERING**  
Kolkata, India | 2018 - 2022 (Expected)

GPA: 8.51/10.0 (Till 6th Semester)

## EXPERIENCE

**GOOGLE SUMMER OF CODE (GSOC) | STUDENT DEVELOPER** Remote | May 2021 – August 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.

**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++, Django, Latex

**TOOLS / PLATFORMS** Git, GitHub, Firebase, Sphinx

**DATABASES** PostgreSQL, MySQL

## PROJECTS / OPEN-SOURCE

**PGR\_EDGE COLORING | C++, C, SQL, SPHINX, PG TAP** [github.com/pgRouting/pgRouting/pull/2061](https://github.com/veenits123/pgRouting/pull/2061)

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 | C++** [github.com/veenits123/Maze-Generator](https://github.com/veenits123/Maze-Generator)

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.

**CODEFORCES PROBLEMS LADDER | PYTHON, DJANGO, HTML, CSS, JAVASCRIPT**

[github.com/veenits123/CF-Problems-Ladder](https://github.com/veenits123/CF-Problems-Ladder)

A dynamic web app that aggregates Competitive Programming problems from Codeforces, deployed on Heroku. Contains a curated list for practising different problems based on ratings and difficulties level.

## 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.