

UMANG MAJUMDER

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EDUCATION

Indian Institute of Science 2022-2026(exp.)
B.S.(Research) • Mathematics

EXPERIENCE

R Project for Statistical Computing Dec 2019 - Present

- Worked with the R Project as part of Google Code-in 2019, working on open source projects in the field of data visualisation and code optimisation. I was named one of the 2 Grand Prize Winners from the R Project.
- Worked with R Project as part of Google Summer of Code 2022. My project tRiad calculates the Delaunay Triangulation of a set of 2D points, using the Sloan(1987) algorithm. The project was completed successfully under the mentorship of Di Cook and Harriet Mason.

PROJECTS

tRiad August 2022

- An R package under the GPL3 License to calculate the Delaunay Triangulation of a set of 2D points
- Written in C++ and R to allow flexibility between speed and readability
- Developed as part of Google Summer of Code 2022
- [Source](#) | [Link](#)

Pixirain May 2021

- A procedurally-generated rain simulator with a pixel art theme
- Developed using PixiJS (a 2D WebGL renderer) and Howler.js(utilising the Web Audio API)
- Created all the pixel art in GIMP and aseprite
- [Source](#) | [Link](#)

AWARDS AND HONOURS

Google Code-in 2019 Feb 2020

- One of the 58 Winners of Google Code-in 2019 among 3566 participants. I was selected as a winner by the *R Project for Statistical Computing* for my open source contributions.
- I qualified for an all-expense paid trip to Google HQ, CA along with one parent.

IRIS National Science Fair 2020-2021 Jan 2021

- My project *Online Topological Sorting in Linearithmic Runtime* was selected as one of the 100 finalists nationwide.

Kishore Vaigyanik Protsahan Yojana 2020 Jan 2021

- As a KVPY scholar, qualified for a fully funded B.S./B.Stat./B.Math./Integrated M.S. degree in India funded by the Department of Science and Technology (Govt. of India)

ACM ICPC Asia Gwalior-Pune Regionals Dec 2019

- My team, *lit_honours*, qualified to attend the ACM ICPC Regionals, an inter-collegiate programming contest, as high school students through the CodeChef ICPC for Schools program.
- Also qualified for full travel reimbursement to and from the venue due to performance in the preliminary round.

SKILLS

- IDE/Text Editors: RStudio, Visual Studio, Sublime Text 4
- Languages: C++, R, Python 3, Javascript, HTML, CSS
- Tools & Libraries: Git, ReactJS, MongoDB
- Software Experience: Aseprite, GIMP
- Operating Systems: Windows,Ubuntu
- Natural Languages: English, Hindi, Bengali

PROFILE LINKS

- [Linkedin](#)
- [Github](#)