



# Dhiraj

Roll No.: 222123018

M.Sc. Mathematics and Computing

Indian Institute Of Technology,

Guwahati

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[🏠 Portfolio Website](#) | [🔄 Dhiraj-Agarwal-IITG](#)

## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Sc. Maths and Computing	Indian Institute of Technology, Guwahati	<b>8.6 (Current)</b>	2022-Present
B.Sc. Physical Sciences	Kirori Mal College, University of Delhi	9.43	2019-2022
Senior Secondary	Haryana Board of School Education	92%	2019
Secondary	Haryana Board of School Education	94%	2017

## PROJECTS

### • GateGuard

Aug. 2023

Team Size-2

[GitHub](#) | [Website](#)

- A user-friendly website which **provides real-time monitoring of student's entry and exit** across various gates in IITG campus.
- **Integrated barcode scanner** to seamlessly fetch student's information, thus avoiding manual data entry and resulting in better accuracy.
- Implemented robust **error handling for duplicate entries and invalid data inputs**, maintaining the integrity of the database and minimizing data discrepancies.
- Technologies used: **HTML, CSS, ExpressJS, NodeJS, ReactJS, MongoDB**

### • StudySphere

June 2023 - Aug 2023

Self Guided

[GitHub](#) | [Website](#)

- StudySphere **is a fully functional ed-tech platform** that enables users to create, consume, and rate educational content.
- **Implemented authentication and authorization using JWT (JSON Web Tokens)**, thus providing a secure and reliable way to manage user credentials.
- Technologies used: **ReactJS, NodeJS, ExpressJS, and MongoDB**.

### • Healthcare Management System

Aug 2023 - Nov 2023

Prof. Kalpesh Kapoor, Dept. of Mathematics, IIT Guwahati, Team Size- 4

[GitHub](#)

- **A Comprehensive Healthcare Platform** catering to doctors, students and faculty members of IITG.
- Implemented robust **authorization and authentication mechanisms**.
- Technologies used: **HTML, CSS, ExpressJS, ReactJS, NodeJS, MongoDB**

## TECHNICAL SKILLS

- **Programming:** C, C++, MATLAB\*
- **Web Technologies:** HTML, CSS, JavaScript, ReactJS, NodeJS, ExpressJS
- **Database Management:** MySQL, MongoDB
- **Miscellaneous:** Wolfram Mathematica, LaTeX, Git, GitHub

\* Elementary proficiency

## ACHIEVEMENTS

- **Geeks-for-Geeks** : **Best Rank 96 among approx. 4000** students in the institute.
- **IIT JAM-2022:** Secured **AIR-27 among approx 13000** candidates in IIT JAM examination.
- **TIFR-2022:** Cleared TIFR Mathematics written examination.

## KEY COURSES TAKEN

- **Computer Science:** Data Structures & Algorithms, Database Management Systems, Theory of Computation, Object Oriented Programming
- **Mathematics:** Algebra, Discrete Mathematics, Differential Equations, Probability Theory, Optimization Techniques, Numerical Analysis, Mathematical Finance

## EXTRACURRICULARS

- **Saathi Counselling Club, IITG:** Mentoring freshmen under Peer Mentorship Program.
- **R-software course:** Attended a 7-days R-software course by IIT Bombay.
- **DasKavay:** I write Hindi poems on different social issues on my blog DasKavay