



Kartik Kurupaswamy

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M.Sc. - Mathematics and Computing

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Sc.	Indian Institute of Technology, Guwahati	8.4 (Current)	2021-Present
B.Sc.(Hons.)	The Maharaja Sayajirao University of Baroda	8.1	2018-2021
Senior Secondary	Central Board of Secondary Education	96.4%	2018
Secondary	Central Board of Secondary Education	10	2016

PROJECTS

- Vote India - Blockchain based voting system** May. 2022 - Aug. 2022
Self Guided GitHub [↗](#) | Website [↗](#)
 - It is an online voting system based on Blockchain technology powered by Ethereum. It is a secure, transparent and decentralized way of voting.
 - The ballots are converted into transactions and securely transacted on Görli Testnet.
 - Technologies used: **HTML, CSS, JavaScript, Solidity, Web3.js, Ethers.js**
- Scheduling Assistant- IITG** Jul. 2022 - Sept. 2022
Group Size-3 GitHub [↗](#) | Website [↗](#)
 - A scheduling assistant to make personalized lecture schedules and track attendance data.
 - Hosted a database for this purpose and connected it to the application via internal API calls.
 - Technologies used: **HTML, CSS, React.js, PHP, MySQL**
- Student's Hostel Portal** Aug. 2022 - Ongoing
Prof. Ashok Singh Sairam, Dept. of Mathematics, IIT Guwahati, Group Size- 2 GitHub [↗](#)
 - A centralized portal for Hostel Affairs board for the management of hostel related matters.
 - Keeps track of the room allocation, room changes and complaints regarding allocated rooms of students of the institute. Also keeps track of the available rooms and allocate every new student with a room when they first arrive on campus.
 - Technologies used: **HTML, CSS, JavaScript, PHP, MySQL**

TECHNICAL SKILLS

- Programming:** C, C++, JavaScript, PHP, MATLAB*, Solidity*
- Web Technologies:** HTML, CSS
- Database Management:** MySQL, Google Firebase
- Operating Systems:** Windows, Ubuntu*
- Miscellaneous:** LaTeX, Truffle, Metamask, Node.js, Web3.js*, Ethers.js*, Git*

* Elementary proficiency

KEY COURSES TAKEN

- Mathematics:** Linear Algebra, Discrete Mathematics, Modern Algebra, Differential Equations, Probability Theory, Optimization Techniques, Numerical Analysis*
- Computer Science:** Computer Programming, Data Structures & Algorithms, Theory of Computation*, Database Management Systems*, Number Theory & Cryptography*

* To be completed in Nov. 2022

POSITIONS OF RESPONSIBILITY

- Core Team Member**, Election Commission, Students' Gymkhana Election, IITG Apr. 2022 - May. 2022

ACHIEVEMENTS

- Google Kick Start Round F 2022:** Secured global rank **747** among **9k** participants.
- Google Code JAM 2022:** Qualified qualification round with **71 points** out of 100.
- Geeks-for-Geeks Practice:** Rank **6** in Institute among 4000 students with **longest POTD streak** of **120+** days.
- CodeChef:** A 4-star coder with highest rating of **1953** and **Global Rank 12 (AIR-7)** in **Starters 42 Div 2**

EXTRACURRICULARS

- Saathi Counselling Club, IITG:** Mentoring freshmen under Peer Mentorship Program.
- LaTeX Workshop:** Attended two days workshop conducted by Research Scholar Forum (RSF) Mathematics, IITG.
- Seminar presentation on **Watermarking for Ownership** an application of Data Hiding.(Seminar Oct'22).