

# Chirag C Dasannacharya

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## EDUCATION

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<b>Birla Institute of Technology and Science, Pilani</b> <i>Bachelor of Engineering in Computer Science</i>	<i>CGPA - 9.52/10</i>	Rajasthan, India <i>2018 – 2022 (Ongoing)</i>
<b>National Public School, Indiranagar</b> <i>CBSE 12th Board Exam</i>	<i>Score - 96.6%</i>	Bangalore, India <i>2018</i>
<i>CBSE 10th Board Exam</i>	<i>Score-10.0/10</i>	<i>2016</i>

## INTERESTS AND SKILLS

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**Domains of Interest:** Systems, Distributed and Parallel Computing, Graph Theory, Multi-Agent Systems

**Courses Taken:** Cloud Computing, Operating Systems, Computer Architecture, Algorithms, Compilers, Graph Theory, Networks, Microprocessors

**Programming Languages:** C, C++, Python, Java

## EXPERIENCE

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<b>Nutanix Technologies</b> <i>Intern, Member of Technical Staff</i>	Bangalore, India <i>(Ongoing) Jan 2022 – June 2022</i>
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- Working with distributed file systems

<b>INSPIRE Lab, BITS Pilani</b> <i>Undergraduate Researcher</i>	Pilani, India <i>Jan 2021 – Dec 2021</i>
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- Studying and proposing strategies for unknown area exploration using multiple robots
- Simulating and evaluating proposals

<b>Nanyang Technological University / Datakrew Pte Ltd</b> <i>Summer Scholar / Industry Intern</i>	Singapore <i>May 2021 – July 2021</i>
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- Part of NTU Singapore's Connect program
- Development of Datakrew's MADS IoT platform

<b>Bhaskaracharya Institute for Space Applications and Geo-informatics</b> <i>Research Assistant</i>	Gandhinagar, India <i>May 2020 – July 2020</i>
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- Implemented algorithms to obtain land surface temperature and statistics from satellite images
- Developed a python plugin for QGIS

## AWARDS AND ACHIEVEMENTS

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<b>Institute Merit Scholarship</b> <i>Awarded to top 3% of students each semester, currently a 4 time awardee</i>	Mar, Sep 2020, Mar, Sep 2021
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<b>International Linguistics Olympiad 2017 - Bronze Medal Winner</b> <i>Won a bronze medal representing India at the 15th International Linguistics Olympiad held at Dublin, Ireland</i>	August 2017
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<b>International Linguistics Olympiad 2018 - Participant</b> <i>Represented India at the 16th International Linguistics Olympiad held at Prague, Czechia</i>	July 2018
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## PROJECTS

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<b>Systems and Network Projects</b>   <i>Cloud &amp; Distributed Systems, File Systems</i>	Sep 2020 - Present
<ul style="list-style-type: none"><li>Implemented a cloud system, complete with containerization, autoscaling, monitoring, orchestration, etc, and ran services on it</li><li>Implemented GFS (Google File System) with metadata server, chunk servers and client mechanisms</li><li>Implemented distributed merge sorting, a concurrent TFTP server and a terminal shell, with piping and redirects</li></ul>	
<b>Multi-Robot Exploration</b>   <i>Multi-Robot Systems</i>	Jan 2021 - Dec 2021
<ul style="list-style-type: none"><li>Studied strategies and proposed centralized and decentralized algorithms to explore unknown areas using multiple robots</li><li>Implemented simulations for the algorithms and evaluated their performance</li></ul>	
<b>Interpreter</b>   <i>Programming Languages</i>	June 2020 – Present
<ul style="list-style-type: none"><li>Developed a grammar for an imperative programming language, Blaze</li><li>Writing an interpreter for the language</li><li>Implemented scanning, parsing, namespaces and function interpretation</li></ul>	
<b>Rectangular Floorplans</b>   <i>Graph Theory</i>	July 2021 - Dec 2021
<ul style="list-style-type: none"><li>Studied strategies to generate rectangular floorplans given rooms and their adjacency relations</li><li>Worked on eliminating separating triangles, identified methods to generate rooms with certain shapes</li></ul>	
<b>Graph Isomorphism</b>   <i>Graph Theory</i>	Aug 2020 - Dec 2020
<ul style="list-style-type: none"><li>Studied, implemented and evaluated algorithms for random graph isomorphism</li><li>Proposed improvements to increase reliability, without affecting time complexity</li></ul>	

## EXTRA-CURRICULARS

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<b>ACM Student Chapter BITS Pilani - Core Team Member</b>	September 2018 - Present
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## COMPETITIVE EXAMS

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<b>Rank 199 - Graduate Aptitude Test in Engineering (GATE) - 2021</b> <i>Ranked 199th out of 102,000 candidates</i>	Feb 2021
<b>Rank 1400 - Joint Entrance Exam (JEE) - Advanced 2018</b> <i>Ranked 1400th out of more than 150,000 candidates</i>	May 2018
<b>Rank 775 - Joint Entrance Exam (JEE) - Mains 2018</b> <i>Ranked 775th out of more than 1,000,000 candidates</i>	April 2018

## PERSONAL DETAILS

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**Interests and Hobbies:** Economics, Strategy games, Game development  
**Languages Spoken:** English, Hindi, Kannada, Tulu