

Chirag C Dasannacharya

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EDUCATION

Birla Institute of Technology and Science, Pilani <i>Bachelor of Engineering in Computer Science</i>	<i>CGPA - 9.52/10</i>	Rajasthan, India <i>2018 – 2022 (Ongoing)</i>
National Public School, Indiranagar <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

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

Nutanix Technologies <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

INSPIRE Lab, BITS Pilani <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

Nanyang Technological University / Datakrew Pte Ltd <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

Bhaskaracharya Institute for Space Applications and Geo-informatics <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 the QGIS

AWARDS AND ACHIEVEMENTS

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

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

EXTRA-CURRICULARS

ACM Student Chapter BITS Pilani - Core Team Member	September 2018 - Present
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COMPETITIVE EXAMS

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

PERSONAL DETAILS

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