

Chirag C Dasannacharya

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EDUCATION

University of California, San Deigo <i>Master of Science in Computer Science</i>	California, USA 2022 – (Ongoing)
Birla Institute of Technology and Science, Pilani <i>Bachelor of Engineering in Computer Science (with distinction)</i>	Rajasthan, India 2018 – 2022 CGPA - 9.58/10
National Public School, Indiranagar <i>CBSE 12th Board Exam</i>	Bangalore, India 2018 Score - 96.6%
<i>CBSE 10th Board Exam</i>	2016 Score-10.0/10

INTERESTS AND SKILLS

Domains of Interest: Computer Systems, Distributed and Parallel Computing, Cloud Computing

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

EXPERIENCE

Nutanix Technologies <i>Intern, Member of Technical Staff</i>	Bangalore, India Jan 2022 – June 2022
<ul style="list-style-type: none">Developed features for Nutanix's distributed storage (file servers and object stores)Worked on improved integration of the file server with S3 and the Nutanix object store	
INSPIRE Lab, BITS Pilani <i>Undergraduate Researcher</i>	Pilani, India Jan 2021 – Dec 2021
<ul style="list-style-type: none">Proposed, implemented and evaluated strategies for unknown area exploration using multiple robotsWork accepted for publication at IROS 2022 (to be held in October 2022)	
Nanyang Technological University / Datakrew Pte Ltd <i>Summer Scholar / Industry Intern</i>	Singapore May 2021 – July 2021
<ul style="list-style-type: none">Part of NTU Singapore's Connect programDevelopment of Datakrew's MADS IoT platform	
Bhaskaracharya Institute for Space Applications and Geo-informatics <i>Research Assistant</i>	Gandhinagar, India May 2020 – July 2020
<ul style="list-style-type: none">Implemented algorithms to obtain land surface temperature and statistics from satellite imagesDeveloped a python plugin for QGIS	

AWARDS AND ACHIEVEMENTS

Institute Merit Scholarship <i>Awarded to top 3% of students each semester, 5 time awardee</i>	Mar, Sep 20, Mar, Sep 21, Mar 22
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
International Linguistics Olympiad 2018 - Participant <i>Represented India at the 16th International Linguistics Olympiad held at Prague, Czechia</i>	July 2018

PUBLICATIONS

- Multi-Robot Unknown Area Exploration Using Frontier Trees** | *IROS 2022* October 2022
- Proposed centralized and decentralized algorithms to explore unknown areas using multiple robots
 - Implemented simulations for the algorithms and evaluated their performance
 - Paper accepted at the 2022 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)

PROJECTS

- Systems and Network Projects** | *Cloud & Distributed Systems, File Systems* Sep 2020 - Present
- Implemented a cloud system, complete with containerization, autoscaling, monitoring, orchestration, etc, and ran services on it
 - Implemented GFS (Google File System) with metadata server, chunk servers and client mechanisms
 - Implemented distributed merge sorting, a concurrent TFTP server and a terminal shell, with piping and redirects
- Interpreter** | *Programming Languages* June 2020 – Present
- Developed a grammar for an imperative programming language, Blaze
 - Implemented scanning, parsing, namespaces and function interpretation
- Rectangular Floorplans** | *Graph Theory* July 2021 - Dec 2021
- Studied strategies to generate rectangular floorplans given rooms and their adjacency relations
 - Worked on eliminating separating triangles, identified methods to generate rooms with certain shapes
- Graph Isomorphism** | *Graph Theory* Aug 2020 - Dec 2020
- Studied, implemented and evaluated algorithms for random graph isomorphism
 - Proposed improvements to increase reliability, without affecting time complexity

EXTRA-CURRICULARS

- ACM Student Chapter BITS Pilani - Core Team Member** September 2018 - May 2022

EXAMS

- GRE - 334/340** Aug 2021
Quantitative Reasoning - 170/170; Verbal Reasoning - 164/170
- Rank 199 - Graduate Aptitude Test in Engineering (GATE) - 2021** Feb 2021
Ranked 199th out of 102,000 candidates
- Rank 1400 - Joint Entrance Exam (JEE) - Advanced 2018** May 2018
Ranked 1400th out of more than 150,000 candidates
- Rank 775 - Joint Entrance Exam (JEE) - Mains 2018** April 2018
Ranked 775th out of more than 1,000,000 candidates

PERSONAL DETAILS

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