

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 - 9.51/10</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: Graph Theory, Multi-Robot Systems, Distributed Systems, Computer Networks, Programming Languages
Programming Languages and Libraries/Frameworks: C, C++, Python, Java, Elixir, Verilog HDL; NumPy, Matplotlib, QT, Phoenix
Fields in which Courses Taken: Algorithms, Networks, Programming Languages, Compilers, Operating Systems, Object Oriented Programming, Database Systems, Digital Design, Microprocessors, Computer Architecture, Theoretical Computer Science

EXPERIENCE

Backend Development Intern <i>Datakrew Pte Ltd</i>	May 2021 - July 2021 (Ongoing) <i>Singapore</i>
<ul style="list-style-type: none">• Part of the NTU Singapore's Connect program• Development and testing of the backend for the MADS platform• Project is written in Elixir and based on the Phoenix framework	
Lab Research Assistant <i>INSPIRE Lab, BITS Pilani</i>	January 2021 - December 2021 (Ongoing) <i>Pilani, India</i>
<ul style="list-style-type: none">• Studying and proposing strategies for unknown area exploration using multiple robots• Simulating strategies for multi-robot systems using Player/Stage• Implementing and evaluating 5 distinct strategies, as well as further variants	
Undergraduate Research Intern <i>Bhaskaracharya National Institute for Space Applications and Geo-informatics</i>	May 2020 – July 2020 <i>Gandhinagar, India</i>
<ul style="list-style-type: none">• Implemented algorithms to obtain Land Surface Temperature (LST) from satellite images• Developed a python plugin for the QGIS platform, using NumPy, GDAL, PyQt and more• Developed a tool to get statistics on temperature-related data in an area, with estimated LST	

AWARDS AND ACHIEVEMENTS

Institute Merit Scholarship (40%) <i>Awarded to top 3% of students, 3 time awardee</i>	Mar 2020, Sep 2020, Mar 2021
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

PROJECTS

Multi-Robot Exploration | *Multi-Robot Systems, Path Planning, C++* January 2021 - Present

- Studied and proposed 5 major algorithms to explore unknown areas using multiple robots
- Implemented the algorithms and evaluated their performance
- Explored further using variations in path planning and other subtasks

Networking and System Projects | *Networks, File Systems, C* September 2020 - November 2020

- Simulated GFS (Google File System) GFS with metadata server, chunk servers and client mechanisms
- Simulated distributed merge sorting over stream sockets
- Implemented a concurrent TFTP server; developed a terminal shell, with piping and redirects

Graph Isomorphism | *Graph Theory* August 2020 – December 2020

- Studied, implemented and presented 2 papers on random graph isomorphism
- Evaluated algorithm performance and explored improvements
- Proposed changes to increase reliability, without affecting time complexity

Interpreter | *Programming Languages* June 2020 – Present

- Developed grammar for an imperative programming language, Blaze
- Writing an interpreter for the language, in C
- Implemented scanner, parser and interpretation of functions and namespaces

EXTRA-CURRICULARS

ACM Student Chapter - Member September 2018 - Present

COMPETITIVE EXAMS

Rank 199 - Graduate Aptitude Test in Engineering (GATE) - 2021 Feb 2021
Placed 199 out of more than 102,000 candidates

Rank 1400 - Joint Entrance Exam (JEE) - Advanced 2018 May 2018
Placed 1400th out of more than 150,000 candidates

Rank 775 - Joint Entrance Exam (JEE) - Mains 2018 April 2018
Placed 775th out of more than 1,000,000 candidates

CERTIFICATIONS

Welcome to Game Theory April 2020
MOOC by Prof. Michihiro Kandori of The University of Tokyo, through Coursera

PERSONAL DETAILS

Interests and Hobbies: Economics, Strategy games, Game development

Languages Spoken: English, Hindi, Kannada, Tulu