

# Chirag C Dasannacharya

+91-7760391067 | [Chirag8CD@gmail.com](mailto:Chirag8CD@gmail.com) | [ChiragCD.github.io](https://ChiragCD.github.io) | [github.com/ChiragCD](https://github.com/ChiragCD)

## EDUCATION

---

<b>Birla Institute of Technology and Science, Pilani</b> <i>Bachelor of Engineering in Computer Science</i>	<i>CGPA - 9.51/10</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

---

**Domains of Interest:** Computer Networks, Distributed Systems, Graph Theory, Multi-Robot Systems, Programming Languages  
**Programming Languages and Libraries/Frameworks:** C, C++, Python, Java, Elixir, Verilog HDL; NumPy, Matplotlib, QT, Phoenix

## EXPERIENCE

---

<b>Backend Development Intern</b> <i>Datakrew Pte Ltd</i>	May 2021 - July 2021 (Ongoing) <i>Singapore</i>
<ul style="list-style-type: none"><li>• Part of the NTU Singapore's Connect program</li><li>• Maintenance and development of the backend for the MADS platform</li><li>• Project was written in Elixir and was based on the Phoenix framework</li></ul>	
<b>Lab Research Assistant</b> <i>INSPIRE Lab, BITS Pilani</i>	January 2021 - December 2021 (Ongoing) <i>Pilani, India</i>
<ul style="list-style-type: none"><li>• Studying and proposing strategies for unknown area exploration using multiple robots</li><li>• Simulating multi-robot systems using Player/Stage</li><li>• Implementing and evaluating proposed strategies</li></ul>	
<b>Undergraduate Research Intern</b> <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"><li>• Used remote sensing methods to analyse urban heat islands</li><li>• Implemented algorithms to obtain Land Surface Temperature (LST) from satellite images</li><li>• Developed a python plugin for the QGIS platform, using NumPy, GDAL, PyQgis, PyQt and more</li><li>• Developed a tool to get statistics on temperature-related data in an area, with estimated LST</li></ul>	

## AWARDS AND ACHIEVEMENTS

---

<b>Institute Merit Scholarship (40%)</b> <i>Awarded to top 3% of students, 3 time awardee</i>	Mar 2020, Sep 2020, Mar 2021
<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
<b>International Linguistics Olympiad 2018 - Participant</b> <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 various algorithms to explore unknown areas using multiple robots
- Implemented algorithms and evaluated their performance
- Proposed and implemented new algorithms for the same
- Evaluated proposed methods

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

- Simulated 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 papers on random graph isomorphism
- Evaluated algorithm performance and explored improvements
- Modified algorithms to increase reliability by reducing input rejection rate, 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