Chirag C Dasannacharya

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EDUCATION

University of California, San Diego — California, USA
Master of Science in Computer Science — *2022 – Present*

Birla Institute of Technology and Science, Pilani — Rajasthan, India
Bachelor of Engineering in Computer Science (with distinction, CGPA - 9.58/10) — *2018 – 2022*

INTERESTS AND SKILLS

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

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

EXPERIENCE

Nutanix Technologies — (Remote) Bangalore, India
Intern, Member of Technical Staff | Distributed Systems, Cloud Storage — *Jan 2022 – June 2022*
- Developed features for Nutanix's cloud storage, worked with file servers, object stores and S3

INSPIRE Lab, BITS Pilani — Pilani, India
Undergraduate Researcher | Multi-Agent Systems — *Jan 2021 – Dec 2021*
- Proposed strategies for unknown area exploration using multiple robots, paper accepted at IROS 2022

Nanyang Technological University / Datakrew Pte Ltd — (Remote) Singapore
Summer Scholar / Industry Intern | Backend Developement — *May 2021 – July 2021*
- Part of NTU Singapore's Connect program, involving Datakrew's MADS IoT platform

Bhaskaracharya Inst. for Space Applications and Geo-informatics — (Remote) Gandhinagar, India
Research Assistant | Python, Open Source — *May 2020 – July 2020*
- Developed a plugin for QGIS to obtain land surface temperature and statistics from satellite images

PROJECTS

Cloud Orchestration System | *Distributed Systems, Network Programming* — Nov 2021
- Implemented and ran services on a cloud orchestration system with containerization, autoscaling, monitoring, etc

Google File System | *File Systems, Distributed Systems* — Oct 2020
- Implemented GFS with metadata server, chunk servers and client mechanisms

Other Systems and Network Projects | *C programming* — 2020 –
- Implemented a concurrent TFTP server; a terminal shell including piping and redirects; distributed merge sorting

Interpreter | *Programming Languages, C programming* — 2020 –
- Developed a grammar and building an interpreter for an imperative programming language, Blaze

Graph Theory Projects | *Graph Isomorphism and Processing* — 2020-21
- Enhanced algorithms to generate rectangular floorplans given rooms and their adjacency relations
- Studied, implemented and enhanced techniques to detect random graph isomorphism

PUBLICATIONS

Multi-Robot Unknown Area Exploration Using Frontier Trees | *IEEE IROS 2022* — October 2022
- Strategies for unknown area exploration using a team of cooperating robots

ADDITIONAL DETAILS

BITS Pilani Merit Scholarship - 2020-22 - Awarded to top 3% of students each semester, 5 time awardee

ACM Student Chapter BITS Pilani - 2018-22 - Core Team member

International Linguistics Olympiad - 2017 bronze medal winner and 2018 participant