

CHIRAG C DASANNACHARYA

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EDUCATION

University of California, San Diego - Master of Science in Computer Science	Sep 2022 – Dec 2023 (Expected)
Birla Institute of Technology and Science, Pilani	2018 – 2022
Bachelor of Engineering in Computer Science (with distinction, CGPA - 9.58/10)	
Courses - Operating Systems, Computer Architecture, Networks, Cloud Computing, Compilers, Algorithms, Microprocessors	

EXPERIENCE

Nutanix Technologies	(Remote) Bangalore, India
Intern, Member of Technical Staff Distributed Systems , Cloud Storage C/C++, Python, Golang; AWS S3	Jan 2022 – June 2022
<ul style="list-style-type: none">Eliminated operational costs associated with garbage collection and simplified workflowsUpgraded multi-cloud garbage collection to use AWS S3 lifecycle policies and object versioningIntegrated an S3 object-based protocol server with the file server to provide S3 access to file storageDeveloped features for cloud storage; worked with distributed file servers, object stores and AWS S3	
INSPIRE Lab, BITS Pilani	Pilani, India
Undergraduate Researcher Multi-Agent Systems C/C++, Boost, Player/Stage	Jan 2021 – Dec 2021
<ul style="list-style-type: none">Proposed strategies comparable to state-of-the-art for multi-robot area exploration, paper accepted at IROS 2022Developed solutions for cooperation with limited data in an unreliable communication environmentDeveloped methods to ensure coordination, state management and fault tolerance in a decentralized setupWorked with path planning (A*, JPS), implemented and simulated strategies using C++	
Nanyang Technological University / Datakrew Pte Ltd	(Remote) Singapore
Summer Scholar / Industry Intern Backend Development Elixir	May 2021 – July 2021
<ul style="list-style-type: none">Part of NTU Singapore's Connect program, involving Datakrew's MADS IoT platformDeveloped analytics data collection and aggregation flows; wrote tests to improve coverage	
Bhaskaracharya Inst. for Space Applications and Geo-informatics	(Remote) Gandhinagar, India
Research Assistant Open Source Python, QGIS	May 2020 – July 2020
<ul style="list-style-type: none">Developed a QGIS plugin to obtain land surface temperature and statistics from satellite images	

PROJECTS

Interpreter (Link) Programming Languages , C programming	2020 – 2022
<ul style="list-style-type: none">Developed a grammar and building an interpreter for an imperative programming language	
Cloud Orchestration System (Link) Distributed Systems , Network Programming	Nov 2021
<ul style="list-style-type: none">Built a cloud system with services and containerization, orchestration, autoscaling, monitoring, etc	
Google File System (Link) File Systems , Distributed Systems	Oct 2020
<ul style="list-style-type: none">Implemented GFS with metadata server, chunk servers and client mechanisms	
Other Systems and Network Projects (Link) Computer Systems , C programming	2020 –
<ul style="list-style-type: none">Implemented a concurrent TFTP server; terminal shell with piping and redirects; distributed merge sorting	

PUBLICATIONS

Multi-Robot Unknown Area Exploration Using Frontier Trees <i>IEEE IROS 2022</i>	October 2022 (Upcoming)
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SKILLS, ADDITIONAL DETAILS

Programming Languages and Tools: C/C++, Python, Java, Golang; Linux, Makefiles, Wireshark, GDB; AWS S3, REST APIs
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