

Devansh Rastogi



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EDUCATION

Indian Institute of Technology Madras

Bachelor of Science in Data Science and Applications

Chennai, Tamil Nadu

Jan. 2024 – Dec. 2027

Guru Gobind Singh Indraprastha University

Bachelor of Technology in Computer Science, Minor in AI & ML

Dwarka, Delhi

Sep. 2021 – July 2025

EXPERIENCE

Research Intern

IIT-Delhi

May 2024 – Present

On-site, Networked Systems Lab

- Collaborated with a team in the Networked Systems (NetSys) Lab on a project associated with Marvell Technologies and IIT Hyderabad, focusing on simulating network traffic patterns for LLM inferencing workloads
- Conducted in-depth research on RDMA technology and designed a virtual RDMA communication infrastructure for efficient VM-to-VM communication
- Acquired extensive knowledge of operating system fundamentals and low-level C programming concepts

Data Science Intern

IBM SkillsBuild — CSRBOX

Feb. 2024 – Mar. 2024

Remote

- Acquired sound technical knowledge of data cleaning and preparation, statistical analysis and data visualization
- Tested this knowledge on the analysis of a real-world project through a case-study
- Learned to interpret the results of the analysis and presented them effectively

Liaison Officer

G20 Conference on Crime and Security in the age of NFTs, AI & Metaverse

July 2023

Gurugram, Haryana

- Facilitated collaboration among G20 nations' representatives
- Ensured seamless communication on emerging NFT, AI, and Metaverse challenges
- Fostered collective strategies for global crime and security

PROJECTS

Synthetic RDMA Traffic Pattern Generator | Wireshark, GenZ LLM Analyzer

June 2024 – Present

- Collaborated with a team to understand network packet traces in a distributed-computing environment for LLM inferencing workload
- Set up a virtual RDMA communication infrastructure for six VMs to communicate with each other, simulating a distributed-computing environment
- Generated synthetic RDMA traffic pattern for LLM inferencing workload using tools like Wireshark Dissector and GenZ LLM Analyzer

Hotel Reservation System | Ballerina, Choreo, React.js

Feb. 2024

- Implemented an API service using Ballerina programming language to demo a simple hotel reservation use case
- Developed front-end using React.js and built this project as a part of a buildathon conducted at my college
- Acquired sound technical knowledge about Ballerina and Choreo concepts
- Deployed the fully working Ballerina application on Azure cloud using Choreo

Classify Song Genres from Audio Data | Python, NumPy

Jan. 2024 – Feb. 2024

- Applied machine learning algorithms to classify songs into genres
- Prepared the data set to apply principal component analysis (PCA)
- Trained a decision tree to classify the genre
- Used cross-validation to evaluate the models

TECHNICAL SKILLS

Languages: Python, C, C++, Swift, SQL

Frameworks: Libfabric, SwiftUI

Developer Tools: Git/GitHub, VS Code, Xcode, JupyterLab, RStudio

Hardware Skills: Arduino, Raspberry-Pi, Circuit Design, Sensor Integration, GPIO Programming

EXTRA-CURRICULAR ACTIVITIES

Sports: Engaged in active participation and proficient organization of basketball and cricket events

YouTube: Passionate YouTube content creator with 100+ subscribers, featuring technical and diverse content

Volunteering: Engaged in regular, independent volunteering activities involving the preparation and distribution of freshly cooked meals to individuals in need