Devansh Rastogi

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EDUCATION

Indian Institute of Technology Madras — Chennai, Tamil Nadu
Bachelor of Science in Data Science and Applications — *Jan. 2024 – Dec. 2027*

Guru Gobind Singh Indraprastha University — Dwarka, Delhi
Bachelor of Technology in Computer Science, Minor in AI & ML — *Sep. 2021 – July 2025*

EXPERIENCE

Research Intern — May 2024 – Present
IIIT-Delhi — *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 — Feb. 2024 – Mar. 2024
IBM SkillsBuild — CSRBOX — *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 — July 2023
G20 Conference on Crime and Security in the age of NFTs, AI & Metaverse — *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

RDMA Traffic Generator for Distributed LLM Inferencing Workload | *PyTorch, TorchRun* — June 2024 – Present
- Collaborated with a team to understand network packet traces in a distributed-computing environment for LLM inferencing workload
- Set up a an RDMA communication infrastructure for 2 rack servers to communicate with each other for a distributed-computing environment
- Generated RDMA traffic for ditributed LLM inferencing workload using PyTorch's TorchRun library

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