Neeraj Kumar Yadav

Email: neerajy@iiitd.ac.in

DOB: July 10, 1998

Address: B-77 Street no.10 Raj nagar-2 Palam, New Delhi-110077

Education

Indraprastha institute of information technology, Delhi Research scholar (Computer science and engineering) **2022 – present**	**CGPA: 8.4/10**
Institute of informatics and communication, University of Delhi M.Sc. (Informatics) **2018 – 2020**	CGPA: **8.05/10**
Bhaskaracharya college of applied sciences, University of Delhi B.Sc (Electronics) 2015 – 2018	CGPA: **8.64/10**
Govt. co-ed senior secondary school, New Delhi CBSE 2014 – 2015	Percentage: **87.4%**
Modern international school, New Delhi CBSE 2012 – 2013	CGPA: **8.8/10**

Skills

Expertise Area	HLS, Data Structures and Algorithms, Object Oriented Programming,
Programming Language	P4 programming, C, C++, Python, Java
Tools and Technologies	Vivado, MATLAB, GEM5, Proteus, LABVIEW, 8085 and 8086 microprocessor, Windows, Linux, VSCode,

Experience:

Teaching Assistant: (Jan'22 –May'22)
Introduction to programming

Teaching Assistant: (Aug'22 –Dec'22)
Computer networks

Teaching Assistant:
Data Structures & Algorithms
(Jan'23– May'23)

Ph.D. thesis:

Developing framework for in-network crypto processing   (Jul'22 – Present)
Guide: Dr. Rinku Shah
Developing framework for in-network crypto processing using
micro-service based architecture.

Internship

Academia   (Jun'19 –Aug'19)
Guide: Dr. Sanjeev Singh   Team Size-4

This internship is based on website development of IIC(college) from scratch.

Projects

Flow differentiated services (QoS) for a programmable   (Feb'22 – Apr'22)
wireless access point   Team Size-2
Guide: Dr. Rinku Shah

The goal of this project was to design and implement custom packet scheduling policies
for different traffic flows for programmable hardware device(Intel tofino).

Learned graph using learned index structures   (Mar'22 – Apr'22)
Guide: Dr. Bapi Chatterjee   Team Size-2

By using the ML model in traditional data structures(graph), how can we decrease
the complexity of the graph's operation.

Cycle accurate simulator for an NoC router and mesh   (Oct'22 – Dec'22)
Guide: Dr. Sujoy Deb   Team Size-3

Using the ML model in traditional data structures(graph), how can we decrease
the complexity of the graph's operation.

Implementing subset of Netflix features by using AWS   (Oct'22 – Dec'22)
Guide: Dr. Dhruv Kumar   Team Size-3

Implemented video streaming application by using cloud concept on AWS.

Positions of Responsibility

- Student volunteer of faculty development programme on   (Dec'17 – Dec'17)
  "research methodology" organized by internal quality
  assurance cell of bhaskaracharya college of applied sciences.

Awards and Achievements

- Receive the **TCS Research Scholar Program (RSP) 2023 scholarship** (Cycle 17)
- Poster paper title **Microservice-based in-network security framework for FPGA NICs** accepted in CCGRID23.
- Secured 3rd rank in B.Sc. 1st year (2015-16)
- Secured 1st rank in B.Sc. 2nd year (2016-17).
- Secured 1st rank in B.Sc. 3rd year (2017-18).
- Secured 1st position in interdepartmental kabaddi tournament in B.Sc 1st year (2015-16).

Interests and Hobbies

- Learning new languages
- E-Sports (CSGO)

Declaration: The above information is correct to the best of my knowledge.

Neeraj Kumar Yadav
Date: January, 2024