

# Nishchal Tiwari

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## EXPERIENCE

### KINBEN INNOVATION | SOFTWARE ENGINEERING INTERN

Sep 2023 – Present | Gurugram

- Developed a comprehensive software solution for collecting, decoding, and analyzing data from an intelligent pigging system. Implemented a streamlined process to handle binary data files from multiple sensors, ensuring accurate alignment and visualization.
- Achieved up to a 20x improvement in data decoding efficiency for the intelligent pigging system through optimized algorithms, enabling faster processing and analysis for timely decision-making.
- As a team, utilized WinForms and the .NET framework to develop a structured software solution with decoder, analyzer, and visualizer components.
- Implemented advanced visualization features in the software for pigging data, including defect identification and marking, empowering users with intuitive tools for effective decision-making and problem-solving.

### INDIAN INSTITUTE OF TECHNOLOGY | SUMMER INTERN

May 2022 – Jul 2022 | Roorkee

- Worked with Professor DR. Dharmendra Singh and Dr Gopal Singh Phartiyal at IIT Roorkee on a Ground Penetrating Radar (GPR) project during a summer internship.
- Collaborated in code to enhance data accumulation and visualization from the GPR machine, subsequently developing a standalone application to streamline data processing and visualization
- Gained valuable hands-on experience in software development, data analysis, and teamwork within a research environment.

## PROJECTS

### P2P VIDEO CALL AND DATA TRANSFER APPLICATION

EXPRESS.JS REACT.JS WEBRTC

- Spearhead the development of realtime video communication platform using WebRTC, enabling efficient peer to peer connectivity.
- Implemented secure data transfer channels during video calls. Utilized Socket.io to enhance realtime communication.

### ALGORITHM VISUALIZER | RAT IN A MAZE , NQUEEN ,SORTING

- Developed an interactive web application showcasing sorting algorithms and solving N Queens and Rat in a Maze problems.
- Designed a user-friendly interface to enhance comprehension of algorithmic processes.

### AUTHORIZATION SYSTEM | SECURITY , SIGN IN/UP , SESSION

- Used database and implemented it on express js to manage the users and their data and simultaneously perform the required validation before allowing the users to enter the system
- The purpose of this project was to have better understanding of javascript libraries , functions and server side programming.

## EDUCATION

### GLA UNIVERSITY

BACHELOR OF TECHNOLOGY IN  
COMPUTER SCIENCE

May 2024 | Mathura

Cum. CGPA: 8.36

### LORD BUDDHA SCHOOL

SENIOR SECONDARY 2019 | 84.2

### ST. XAVIER'S SCHOOL

HIGH SCHOOL 2017 | 10 CGPA

## SKILLS

### PROGRAMMING

Languages

Java • CSharp • JavaScript • Python

Frontend:

REACT JS • REDUX • WINFORMS/WPF

Backend:

Node JS (Express JS) • .NET Framework

Database:

Mongodb • SQL • PostgreSQL

### TECHNOLOGY

Git/Github • AWS • Linux

UNIX • Windows

## COURSEWORK

### GRADUATE

Analysis of Algorithms

Database Management

Scripting Languages

### COURSERA

Unordered Data Structures

Accelerated Computer Science

Fundamentals

## SOCIETIES

Technical Lead At GFG CLUB

College Finalist At Smart India

Hackathon

## LINKS

Github:// [Nishchal-Tiwari](#)

Leetcode:// [Nishchal-Tiwari](#)

LinkedIn:// [nishchal-tiwari-063559208](#)