

# TARANG BHARGAVA

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## EDUCATION

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### SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

*B. Tech in Information Technology, CGPA: 9.28*

Chennai, Tamil Nadu

*June 2026*

### St. JOHN' S SCHOOL

*Intermediate, Percentage: 88.2*

Faridabad, Haryana

*May 2022*

## TECHNICAL SKILLS

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**PROGRAMMING LANGUAGES:** C++, C, JavaScript, Java, Python, SQL

**CORE SUBJECTS:** Data Structures and Algorithms, OOPs, DBMS, Operating System

**WEB DEVELOPMENT AND DATABASE:** HTML, CSS, ReactJs, MongoDB

**DEVELOPER TOOLS AND TECHNOLOGIES:** VS Code, Git, GitHub

## PROJECTS

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### Autonomous Industrial IoT for Bridge Structural Health Monitoring

- Developed an autonomous system leveraging AI and IoT to monitor the health conditions of bridges in real-time. IoT sensors collect structural data (stresses, strains, vibrations) and transmit it to a central processor, where AI algorithms such as CNN analyze the data for signs of damage, wear, or structural fatigue. The system provides predictive insights for proactive maintenance, minimizing human intervention.
- Tech: **IoT, AI, CNN, Real-Time Data Processing**

### Student Management System

- Designed a Database for students and teachers that helps them store, retrieve, or track information about a student effectively.
- Used SQLite and Tkinter to create a front-end for the project for better user experience.
- Tech: **MySQL, SQLite, Tkinter**

### Red Light Traffic Violation and Number Plate Detection

- Developed an autonomous system to detect red-light violations using contemporary computer vision techniques. The system consists of an object detector and tracker working in coordination to maintain vehicle locations and identify violators. It also incorporates number plate recognition for enforcement.
- Tech: **C, Python, OpenCV, MongoDB**

## EXPERIENCE

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### Intrainz Artificial Intelligence Training

*Trainee*

**May 2024 – July 2024**

- Gained hands-on experience with machine learning techniques and algorithms.
- Utilized Python libraries and frameworks for data preprocessing, model training, using tools like Scikit-learn and Pandas to support machine learning workflows.
- Conducted a detailed analysis and report on K-means clustering, demonstrating proficiency in unsupervised learning techniques.

## ACHIEVEMENTS

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- AICTE -Eduskills: Android Developer Virtual Internship, AI-ML Virtual Internship (Google for Developer).
- Certified Professional Oracle Java SE 11 Developer.
- Completed **HackerRank** 5-star badges in C++, Problem Solving, Python, Java, and C.
- Completed: **Oracle Cloud Infrastructure Foundations Associate 2024**, **Introduction To Java by LearnQuest**, **Database Management system with MySQL by META**, **Data Structures and HTML, CSS and Javascript Certification**, on Coursera, and participated in hackathons and virtual training programs.

## CODING PROFILE

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[Leetcode](#) / [GitHub](#) / [GeeksforGeeks](#) / [Hackerrank](#)