

# CHAKSHU SHARMA

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## EDUCATION

### BANGALORE INSTITUTE OF TECHNOLOGY

Bachelor of Engineering

Major in Computer Science

Cumulative GPA: 8.6

Relevant Coursework: Data Structures and Algorithms; Database Management System; Software Engineering; Operating Systems; Unix Programming; Computer Graphics.

Bengaluru, KA  
Graduating in May'24

## INTERNSHIP

### Persistent Systems / Bangalore

Jul'23-Aug'23

Participated in the intensive Martian Summer Internship Program at Persistent Systems, focusing on building a strong foundation in key technical areas:

- **Linux:** Gained hands-on familiarity with Linux operating systems, navigating command-line interfaces and understanding fundamental system operations.
- **Database Management Systems (DBMS):** Acquired a basic understanding of database concepts, including data modelling and querying, setting the groundwork for future data-driven projects.
- **Data Structures and Algorithms:** Developed a comprehensive grasp of core data structures and algorithms, enabling a structured approach to problem-solving and algorithmic thinking.
- **Java:** Learned the essentials of Java programming, including syntax, object-oriented principles, and basic application development

## PROJECTS

### FILE MANAGEMENT SYSTEM

Mar'22-Apr'22

An application to automatically sort and search files in a directory

- Designed and implemented a system to efficiently sort files in each folder based on their extension.
- Created an intuitive GUI using the ncurses C library.
- Generated a file search functionality for the sorted files within the GUI.
- Files were categorized with a time complexity of  $O(n)$ .

### FASTAG DATABASE MANAGEMENT SYSTEM

Jan'23-Feb'23

An application to track toll payments and parking expenses based on the vehicle's register number

- Developed a Fastag Database.
- Utilized Flask and MySQL for backend development
- Employed Bootstrap to enhance the frontend design.

### CAR LANE DETECTOR

Jan'23-Feb'23

Car Lane Detector based on canny edge detection

- Developed a car lane detector using Python libraries NumPy and OpenCV.
- Provides real time detection based on Canny edge detection and Hough Transforms algorithms.

### ATTENDANCE ON-THE-GO

May'23-Jun'23

An application to track attendance of students

- Created a system to provide an efficient and convenient solution to track attendance using Android Studio to build the Android App.
- Employed bundles to optimize data packaging and transfer, enhancing the app's proficiency in managing attendance records and information.

## CERTIFICATION

- Mistral Hackfest - Hackathon
- Flipkart GRiD 5.0- Hackathon
- Data Structures and Algorithm (Great Learning)
- Advanced SQL (Great Learning)
- Full Stack Software developer – IBM(Coursera)

## TECHNICAL

**Coding Languages:** C, C++, Java, Python.

**Technical Skill:** Android, HTML, CSS, Data Structure and Algorithms, Oracle SQL, MySQL, Flask, Linux.

**Interest:** ML, UX/UI, Android Development, Software Development, Product Management.

## **PERSONAL**

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**Languages:** English (Proficient), Kannada (Native), Hindi (Elementary), Tamil (Elementary).

**Hobbies:**

- Passionate shuttle badminton player who has been playing the sport for over 6 years.
- Avid photographer and graphic designer. In my free time I take photos of nature and portraits.
- I like to organize events in the community and volunteer for clubs in the college.