

# Alapan Das

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## PROFILE

A detail-oriented and enthusiastic individual with strong programming, systems management, and problem-solving skills. Reliable and adaptable, eager to apply academic knowledge in IT operations and technical troubleshooting. Seeking challenging opportunities for career advancement in a professional organization.

## TECHNICAL SKILLS

**Programming Languages:** C++, Core Java, C, Python, Javascript  
**Database:** MySQL, Oracle, MongoDB  
**Web Technologies:** HTML, CSS, Node.js (Beginner), React.js (Beginner)  
**Version Control System:** Git, Github  
**Software Engineering Concepts:** SDLC, Prototyping, Iterative Development  
**Development Methodologies:** Agile, Scrum, Kanban, Iterative Waterfall, Spiral

## INTERNSHIP

**IBM SkillsBuild Internship** June-Aug'24  
• Front End Web Development Task.

## PROJECTS

### Driver's Drowsiness Alert System (Group Project) [\(Github Repository\)](#)

Python, Flask, OpenCV, Dlib, eSpeak, NumPy, Imutils, HTML, CSS

- Developed a system that detects driver drowsiness and alerts drivers to avoid accidents.
- **Developed a real-time drowsiness detection system** using OpenCV, Dlib, and Flask for live facial monitoring.
- **Implemented facial landmark detection and eye movement tracking** to identify driver fatigue and trigger alerts.
- **Designed a web-based application with Flask** to provide a user-friendly interface for seamless accessibility.
- **Integrated multi-threaded alert mechanisms** using Python's threading module to issue real-time voice alerts.

### FoodWise: Food Wastage Solution (Group Project) [\(Github Repository\)](#)

MongoDB, Express.js, Node.js, JWT, and RESTful APIs

- Designed API routes, securing authentication with **JWT**, and structuring efficient database schemas.
- Implemented JWT authentication with proper access and refresh tokens, improving **security, user session management**, and preventing unauthorized access.
- Resolved integration issues during backend-frontend communication by formatting response data correctly, ensuring smooth interaction between the two layers of the application.
- Enhanced backend performance by optimizing API response times and implementing secure user authentication, protecting sensitive data with bcrypt encryption.

## EDUCATION

### B.Tech in Information Technology

University of Calcutta

2023-Present

CGPA: 8.15

### Graduate in Computer Science (Hons.)

University of Calcutta

2020-2023

CGPA: 8.379

## SOFT SKILLS

Problem-solving, Team-Collaboration, Time Management, Attention to Detail, Adaptability