



DIP MANDAL

Computer Science & Engineering Student | KAZI NAZRUL UNIVERSITY | India

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SUMMARY

Motivated B.Tech Computer Science and Engineering (Data Science) student with strong hands-on experience in backend development, real-time systems, and full-stack applications using Python, FastAPI, and modern web technologies. Passionate about building scalable technology products and seeking opportunities as a Software Engineering Intern.

EDUCATION

B.Tech in Computer Science and Engineering (Data Science)
KAZI NAZRUL UNIVERSITY, Asansol, West Bengal | 2023 - 2027
SGPA: Sem 1 – 7.09 | Sem 2 – 8.59 | Sem 3 – 7.52 | Sem 4 – 9.39
MANINDRA NATH HIGH SCHOOL, Cooch Behar, West Bengal
HS (2023): 385/500 (77%)
MP (2021): 644/700 (92%)

ROLES & LEADERSHIP

Class Representative | Kazi Nazrul University (2023 - Present)
- Facilitated communication between faculty and 90+ students.
- Guided peers in academic and group projects.
Student Representative, Internal Quality Assurance Cell (IQAC), Kazi Nazrul University

PROJECTS

1. Real-time End-to-End social media + dating Android App | Python-FastAPI, WebSocket, MySQL, Expo-Bun, TypeScript
- Designed a real-time Android application combining social networking and dating features using FastAPI, WebSockets, and MySQL, supporting real-time messaging and scalable user interactions.

2. Real-time End-to-End Chat Web App | Python-Flask, WebSocket, MySQL, HTML, CSS, JavaScript
 - Designed and developed a real-time chat Web application using Flask, WebSockets, and MySQL, supporting low-latency real-time communication and scalable backend services.
3. Real-time Eye Blinking Detection (eBlink) | Python, MediaPipe, SQLite, Kotlin
 - Helps track eye health conditions through blink-rate analysis.
4. Voice Assistant | Python-Flask, HTML, CSS, JavaScript
 - Developed an assistant that responds to commands and integrates with web tech.
5. Bluetooth Device Scanner & Connector | Python, Bleak Library, HTML
 - Created app to scan & connect multiple Bluetooth devices.
6. Text File Analyzer | C++
 - Designed app to analyze text files, extract data insights.
7. Chatbot | Python-Flask, HTML, CSS, JavaScript
 - Implemented chatbot for answering queries using back-end logic.
8. Portfolio Website | HTML, CSS, JavaScript
 - Built and deployed personal portfolio site.
9. Student Data Management System | C, File Handling
 - Built a system for managing student records efficiently.

SKILLS

Languages: Python, C/C++, Java, HTML, CSS, JavaScript, TypeScript, Node.js, Dart, Kotlin

Backend Frameworks: Flask, FastAPI

Frontend / Mobile: Expo, Flutter

Databases: MySQL, SQLite

Tools & DevOps: Visual Studio Code, Git, GitHub, Android Studio, Docker

OS: Windows, Linux

HOBBIES

Tech blogs

Hackathons

Traveling

Cooking

PERSONAL INFORMATION

Date of birth: 2nd October 2004

Gender: Male

Home town: Cooch Behar, West Bengal

Nationality: Indian