Ashmit Dutta

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Projects

⬇ </> Wayfindr | *Smart Public Transport Assistant*

- Developed a real-time bus tracking application tailored for visually impaired users, enabling location-aware navigation through minimal UI and accessibility-first design
- Integrated Firebase Realtime Database for continuous location tracking and Text-to-Speech (TTS) for real-time voice updates on approaching bus stops and arrivals.
- Implemented GPS-based comparison between bus and stop coordinates to trigger automated, location-specific voice alerts, ensuring seamless and independent travel assistance.

▤ Basic Home Media Server | *Personal File and Media Storage*

- Developed and deployed a basic self-hosted file/media server using TrueNAS for efficient data management at home.
- Configured network-attached storage (NAS) with RAID for data redundancy and enhanced reliability.
- Implemented user access control solutions for secure data handling.
- Optimized media streaming and storage by integrating jellyfin/Plex for seamless multimedia access.

Technical Skills

Languages: C, SQL, Python(Basic)
Core Subjects: Data Structures and Algorithms, DBMS, OS, CN
Databases and Data Management: MySQL, Firebase
Cloud & Database Tools: GitHub, AWS(Basic), Firebase

Management Experience

KIIT Fest Organizing Committee　　　　　　　　　　　　　　　　　　　　　　Feb 2025
Central Volunteer

Certifications

Learn SQL using MySQL and Database Design: Scalar
Core Subjects: Data Structures and Algorithms, DBMS, OS, CN
Mastering Data Structures and Algorithms using C/C++: Udemy

Education

KIIT Bhubaneswar　　　　　　　　　　　　　　　　　　　　　　　Sept 2022 – Present
Bachelor of Technology in Electronics and Computer Science Engg.　　　　　　*CGPA: 8.07*

CARE Public School, Bilaspur　　　　　　　　　　　　　　　　　　　　　　Mar 2021
12th CBSE　　　　　　　　　　　　　　　　　　　　　　　　　　*Percentage: 79.4%*

LCIT Public School, Bilaspur　　　　　　　　　　　　　　　　　　　　　　Apr 2019
10th CBSE　　　　　　　　　　　　　　　　　　　　　　　　　　*Percentage: 86.6%*