

Ushakoyala Ajay Kumar

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Education

- PDPM IIITDM Jabalpur MadhyaPradesh, India
Bachelor of Technology - Information Technology 2022-Present
Courses: Operating Systems, Data Structures, Design and Analysis Of Algorithms, Artificial Intelligence, Networking, DBMS

Skills Summary

- Languages : C, C++, Python, JavaScript, SQL
- Frameworks & Libraries : Django, Node.js, React, Redux Toolkit, Express.js
- Databases : MongoDB, PostgreSQL, MySQL
- AWS Services : EC2, IAM, S3, ECR
- Tools & Version Control : Git, Visual Studio Code
- Operating Systems : Linux, Windows
- Soft Skills : Leadership, Project Management, Technical Writing, Public Speaking, Time Management

Experience

- Fusion - Backend Engineer Aug 2024 - Apr 2025
 - Developed and integrated RESTful APIs for the HR module.
 - Optimized database queries and enhanced system performance. Architected robust data models for
 - streamlined club management and activity tracking.

Projects

- Algorithm for Minimizing Global Bank Transactions [Feb 2025]
 - Designed an efficient algorithm using graphs and multisets in C++ to reduce cross-border transactions. Designed a central world bank intermediary system for enhancement of banking efficiency. Integrated the C++ algorithm with Django backend to create a robust web application. Deployed using aws ec2 instance and used nginx and gunicorn for better server performance.
- Real-Time Bus Booking Application(bus_buddy) [Aug 2024]
 - Developed a full-stack Flutter application for web, desktop, and mobile to streamline bus ticket booking for the IIITDM Jabalpur campus. Implemented real-time booking, a custom wallet coin system for cashless transactions, and user authentication, significantly improving the efficiency of campus bus services.
- AI Virtual Keyboard [Nov 2024]
 - Built an accessible virtual keyboard using OpenCV for on-screen text input, offering a beneficial alternative for users with physical impairments or diverse input preferences.
- Sepsis_app [Mar 2025]
 - Developed a machine learning-powered web app to predict sepsis patient survival using clinical datasets and real-time inputs.
 - Integrated Python (Flask), trained models (Random Forest, Logistic Regression), and CSV-based patient data for accurate risk assessment.

Achievements

- HackerRank performance [May 2024]
 - Achieved 5★ rating in Problem Solving on HackerRank with 448 Hackos, demonstrating strong algorithmic and logical thinking skills.
 - Solved a wide range of data structures and algorithm challenges under the Algorithms domain on HackerRank.
- Competitive Programming Accomplishments
 - Solved 400+ algorithmic problems across various platforms, demonstrating strong analytical skills.

Certifications

- Learning Full Stack Development [June 2025]
 - Completed full stack web development course covering Node.js, Express.js, MongoDB, and NPM.
 - Gained hands-on experience in building scalable end-to-end applications using modern JavaScript stacks.
- Full Stack AWS Application Development [July 2025]
 - Built secure, scalable cloud applications using AWS services like Lambda, DynamoDB, and API Gateway.
 - Gained hands-on experience integrating backend, storage, authentication, and traffic routing using AWS SDKs.