ASHISH YADAV

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SKILLS AND INTEREST

- **Programming Languages**: Java, JavaScript, TypeScript
- **Frameworks and Libraries**: React.js, Firebase, WebSocket, Tailwind CSS, Mongoose, Spring Boot, Node.js
- **Tools:** Redis, Docker, Git
- **Databases**: SQL Server, Postgresql, MongoDB
- **Areas of Interest**: Data structures and Algorithms, Low-Level Design, High-Level Design, Microservices

EXPERIENCE

ACS Solutions (Innova Solutions)   **July 2022 – November 2024**

Associate Software Engineer (TnE)
- Deployed 5+ key features in the Time and Expense application, ensuring core functionalities and data integrity.
- Resolved 7+ critical bugs in production, leading to 15% increase in the accuracy of PTO bills and non-bill hours tracking.
- Identified and fixed a critical end-date validation bug, restoring functionality and preventing delays for 500+ workers.
- Maintained a version history for each timesheet, enabling over 500 employees to track changes and updates made to specific timesheets. This improved auditability, transparency, reducing query resolution times by 20%.
- Streamlined the role-based approval process, enabling approvers to efficiently review and approve over 450 submitted timesheets.

PROJECTS

Scalable Chat App using WebSocket   (*Link*)
- Designed and developed a highly scalable web chat application using **WebSockets** enabling real-time, bidirectional communication for thousands of concurrent users.
- Implemented error handling on both server and client sides, ensuring **99.9%** uptime and robust application performance.
- Managed online user presence with **Socket.io** and **React Context API** , providing accurate real-time status updates.
- Secured user authentication and authorization using JWT to enhance application security, and secured API endpoints by creating custom Express middleware.
- Designed the **database schema** from scratch, establishing relationships between entities such as users, messages, and chat rooms, while ensuring data integrity by taking care of mandatory and unique fields to streamline query execution.

Food Management System   (*Link*)
- Developed a robust food ordering system using **TypeScript** for type safety and improved code quality
- **Utilized** Multer for efficient image uploads, allowing vendors to showcase up to **10** menu items seamlessly.
- Secured API endpoints and implemented authorization using **JWT**, ensuring secure user access and data protection..
- Integrated **Twilio OTP** for user authentication, providing a reliable and secure verification process.
- Streamlined vendor and user onboarding, reducing setup time by 25% through optimized workflows and API integration.
- Leveraged **Mongoose** as the ORM to interact with **MongoDB Atlas**, ensuring efficient data handling and management.
- **Containerized the application** by writing a comprehensive **Dockerfile** and successfully built a Docker image to streamline deployment and ensure consistent environments across different stages of development.

EDUCATION

B.Tech (Computer Science & Engineering)   **May 2022**
CGPA - 7.49/10
Amity University, Lucknow

ACHIEVEMENTS

- **Leetcode**: Earned **4** badges on LeetCode by solving over **290** problems, including questions on sliding window, Arrays ,Strings and greedy algorithms, demonstrating proficiency in data structures and algorithms
- Achieved **2** promotions, advancing from Trainee to Junior and then to Associate, and received the Employee of the Month award for outstanding performance.
- Achieved **4**-star Badges in **SQL** and **Java** on **HackerRank** by completing over **30** complex challenges, showcasing skills in database management, query optimization, data retrieval techniques.