AMIR ALAM

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Experience

F2 Fintech   **March 2024 – current**
Full Stack Developer Full Time   *Noida 63, India*

- Designed and built a comprehensive Human Resource Management System (HRMS) for handling employee attendance, leave requests, punch-in/out times, break schedules, holiday lists, employee queries, and seating arrangements.
- Implemented secure user authentication with JWT, ensuring role-based access control.
- Integrated AWS S3 for efficient storage and retrieval of data, including employee documents and other media assets.
- Developed real-time notification and messaging features on the portal, with email alerts for key updates.
- Utilized toast notifications to display backend messages to the admin in real-time.
- Utilized MongoDB Atlas as the primary database for reliable and scalable data storage.
- Deployed backend services on AWS EC2, optimizing server configuration for performance and cost-effectiveness.
- Integrated SonarQube for static code analysis to ensure high code quality and maintainability.
- Managed codebase with Git, utilizing branching and pull requests for feature development and bug fixes on GitHub.

F2 Fintech   **Jan 2024 – Feb 2024**
Back-End Developer   *Noida 63, India*

- Developed and implemented RESTful CRUD APIs for the Operations Management System, allowing employees to post, retrieve, update, and delete data across various sections.
- Created and integrated APIs for the operations team to manage and update operational data efficiently.
- Utilized MongoDB for data storage, optimizing database schema for scalability and performance.
- Implemented secure sign-in functionality through an authentication API, ensuring proper user verification and access control.
- Tested all backend APIs thoroughly using Postman and Thunder Client to ensure reliability, security, and correct data handling.

Appzlogic   **Feb. 2023 – Dec. 2023**
Software Engineer   *Noida, India*

- Utilized Spring Boot for rapid development and easy configuration.
- Hibernate ORM for seamless interaction between the application and MySQL database.
- Implemented Spring Data JPA to handle data persistence and repository management, ensuring efficient database operations.
- Developed RESTful APIs to perform CRUD operations, allowing for efficient data manipulation and retrieval.
- Ensured data integrity and consistency by implementing transaction management and validation logic.
- Conducted unit and integration testing to guarantee the reliability and performance of the application.

Education

RGPV   **Aug. 2020 – May 2023**
Bachelor of Technology(Electronics and Communication Engg); Percentage: 87   *Bhopal, India*

Ambedkar Institute of Technology   **Aug. 2017 – June 2020**
Diploma(Digital Electronics Engg); Percentage: 70   *New Delhi, India*

Projects

HRMS | *Nest.js, Mongodb,jwt,Next.js,MUI,Aws, SonarQube*   **May 2024 - Present**

- Designed and implemented a full-featured Human Resource Management System (HRMS) using NestJS for the backend, Next.js for the frontend, and MongoDB as the primary database to efficiently handle all HR functionalities.
- Built secure and scalable CRUD APIs for key modules, including attendance tracking, leave management, employee directory, holiday scheduling, employee queries, punch-in/punch-out, break sheets, and seating arrangements, ensuring smooth HR operations.
- Structured and joined tables to enable seamless data relationships across modules, allowing cross-functional data retrieval (e.g., fetching attendance records linked to employee IDs).
- Deployed the backend on AWS EC2, ensuring high availability and performance. Used AWS S3 to store and manage employee images and files securely, optimizing data access and storage reliability.

- Implemented role-based access control (RBAC) using JWT for secure authentication, ensuring different access levels for employees, managers, and administrators.
- Integrated SonarQube for static code analysis to ensure high code quality and maintainability.
- Developed a responsive and user-friendly UI in Next.js, allowing users to easily access and interact with HRMS functionalities, including a dashboard for viewing personal and team data.
- Used Git for version control and GitHub for project collaboration, tracking changes, and managing code contributions.

PayRoll Management System | *Nest.js, Mongodb, Next.js,Redux Toolkit, MUI* **November 2024 - Present**
- Developed a Payroll Management System with NestJS, Next.js, MongoDB, and Redux Toolkit, featuring dynamic dashboards for admins and employees.
- Implemented secure role-based JWT authentication, allowing only admins to manage payroll CRUD operations.
- Created REST APIs for managing salary templates, expenses, and employee records with optimized data handling.
- Designing relational data structure where salary templates, expenses, employees, and payroll tables are interconnected.
- Enabled employees to securely view and download their payrolls with personalized salary details.
- Department-wise salary distribution using visual charts.
- Integrated data visualization, including graphs for monthly salary expenses, department-wise distribution, and employee utilization.
- Built scalable and responsive UI with Material-UI, ensuring seamless user interaction and real-time updates.

Ops Management System | *Nodejs,expressjs,Mongodb,Reactjs,css*   **Jan 2024 - May 2024**
- Description: An internal system designed to streamline operations management.
- User and Operations Forms: Developed interfaces for users and ops teams to fill out and submit forms.
- Authentication and Access Control: Implemented JWT-based authentication to ensure secure access. Role-specific access: Users track form status; Managers manage team files.
- Allowed ops teams to edit and save current month data. Provided access to previous month data via separate login credentials. Merged data from both tables for a comprehensive view in tracking records.
- Dynamic UI: Created a user interface that displays data dynamically post-login.
- Color-Coded Status Indicators: Added visual indicators for case management to enhance user experience: Green: Disbursed, Yellow: Approved, Red: Rejected, Pink: On Hold

Skills

Technical Languages: JavaScript, Typescript, Java, HTML/CSS**.**
Technologies/Frameworks: Nest.js, Node.js, Express.js, REST APIs, Mongoose, React.js, Nextjs, Redux.
Database: Mongodb, Mysql**.**
Tools:Git, GitHub, Postman,AWS (EC2, S3), Docker, SonarQube, Jira.