GAIRIK MANDAL

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PROFESSIONAL SUMMARY:

- Results-oriented MERN Stack Developer with extensive experience in designing and implementing dynamic web applications. Proficient in full-stack development using MongoDB, Express.js, React.js, and Node.js, with a strong foundation in JavaScript, HTML, CSS, and RESTful API development. Skilled in optimizing database performance, implementing responsive design, and leveraging cloud services such as AWS and Azure. Strong problem-solving abilities in Data Structures and Algorithms, coupled with a passion for agile methodologies and continuous integration/continuous deployment (CI/CD) practices. Enthusiastic about tackling new challenges and committed to delivering high-performing, scalable, and maintainable solutions that enhance user experience and drive business success.

EDUCATION: CGPA: 7.83 | 2017-2021

- Jadavpur University | Bachelor of Electrical Engineering

CERTIFICATIONS:

- AWS Certified Cloud Practitioner certification.
- Azure Fundamentals certification.

SKILLS:

- **Languages:** C++, C, Python, Java, OOPS
- **Cloud Platform:** AWS, Azure
- **Front End Technologies:** CSS, HTML5, JavaScript, TypeScript, jQuery, React.js, Bootstrap 5, Material UI, Tailwind CSS
- **Back End Technologies**: Node.js, Express.js
- **Database:** MongoDB, MySQL
- **Tools:** VS Code, Postman, Eclipse, PyCharm, Postman
- **Generative AI Tools:** Microsoft Copilot, Azure AI Platform
- **Languages:** Bengli, English, Hindi

EXPERIENCE:

Junior Software Engineer | Cognizant   2022 Feb - 2024 May

- Developed and maintained high-performance full-stack web applications utilizing the MERN stack, enhancing user engagement and satisfaction.
- Designed and implemented robust RESTful APIs, ensuring scalable server-side logic and seamless integration with front-end applications.
- Managed state efficiently using Redux, **resulting in a 10% reduction in data flow errors.**
  Centralized State: All state was managed in a single store, ensuring consistent state across the app,
  Debugging Tools: Redux DevTools made it easier to trace actions and state changes, helping identify and fix data flow errors quickly.
- Implemented authentication and authorization using JWT, increasing security and **reducing unauthorized access incidents by 5%. This involved:** Generating JWT upon user login, Storing the token on the client side. Verifying tokens in incoming requests. Granting access based on token validity and user permissions.
- Optimized database performance by **indexing frequently accessed fields, resulting in a 10% decrease in loading times** and improved user experience.

PROJECTS:

TravelEasy Web App   Repositories: Frontend   Backend

A full-stack web application empowering users to search and book hotels online, enhancing travel planning.

- **Key Features:**
  - **User-Friendly UI:** Designed an intuitive user interface that simplifies navigation and enhances the user experience.
  - **User Authentication:** Developed secure sign-up and login functionalities using JWT for enhanced data protection.
  - **Advanced Hotel Search:** Enabled users to filter hotels by destination, price range, ratings, and bedroom requirements.
  - **Seamless Booking System:** Integrated payment processing for secure and efficient hotel reservations.
  - **Database Management:** Utilized MongoDB for efficient data storage and retrieval, improving application performance.
  - **Tech Stack: Front End:** React.js, Html, CSS, Material UI | **Back End:** Node.js, Express.js | **Database:** MongoDB
  - **Website: https://traveleasygairik.netlify.app/**

ACHIEVMENTS:

- Solved over **800 DSA problems** on platform like Leetcode, GeeksforGeeks, Code 360