MD AMIR SOHAIL

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Education

Aliah University   **August 2019 - June 2023**
Bachelor of Technology in Electronics and Communication Engineering (CGPA of 8.3)   *West Bengal, India*

Experience

Brainvire Infotech   **June 2023 – Present**
Associate Software Engineer   *Ahmedabad, India*

- **AI-Chat-bot -** Developed a **serverless AI chatbot** using **Google Cloud Functions** and the OpenAI API to provide intelligent, context-aware responses to user queries. Implemented robust security with **JWT** authentication and dynamic API key rotation for secure and efficient API management.
- Leveraged GCP **Firestore** for scalable, real-time data storage and retrieval, ensuring fast and reliable user interactions.
- Implemented infrastructure as code through **Terraform** for seamless **deployment** and management of Google Cloud Functions and related services, enhancing automation and scalability.
- **Mentis -** Developed a dynamic **Node.js** application meticulously crafted to align with the requirements. Skillfully integrated strategic **GaphQL API's**, yielding a remarkable **performance boost** that catapulted execution speed from **10 seconds** to an extraordinary **7 to 800 milliseconds.** This not only revolutionized the application's responsiveness but also established an unprecedented standard for peak performance.
- Collaborated with the team to **improve DB query efficiency**, employing innovative approaches that significantly reduced execution time. The result was a faster application loading experience, showcasing a proactive role in optimizing the overall system performance.
- **Maincourt -** Spearheaded the development of a feature-rich chat application backend using **Node.js**, **REST APIs**, **Socket.io**, and **MongoDB**. Implemented efficient one-to-one and group chat functionalities, robust support for group and one-to-one audio/video calls, and live chat support with multiple admin capability using **Kafka** for real-time messaging and managing the availability of admin users.
- Initiated and implemented code improvements for optimized performance and scalability, contributing to an enriched user experience and establishing the application as a comprehensive communication platform with the addition of group meetings.

Personal Projects

Food Ordering Website | (Live) | (GitHub)

- Built a fully **authenticated eCommerce website** for selling foods online, integrated **payment gateways** for **PayPal** and **card payments**, and hosted the site on **render.com**. Implemented customer **login**, **order placement**, and **checkout** functionalities, with sellers receiving **order confirmation** and details for **delivery**.
- Technologies used: **HTML, CSS, Angular, Node.js, Angular-router, MongoDB, Express, REST APIs**.

Memories Album using QR code | (GitHub)

- Developed an album-sharing platform with features for liking, sharing, and commenting, utilizing **QR code** generation and reading through qr-image and jsqr libraries. Ensured secure user authentication, robust server-side validation, and email functionality using **Nodemailer**, with distinct admin and user roles.
- Created a "Memories Album" system with QR code sharing via email, privacy settings for images, and a React-based interface for a user-friendly experience. Technologies used: **Node.js, REST APIs, React.js, MongoDB, Express.js**.

Achievements

- Solved 140+ problems on Leetcode based on **Data Structures and Algorithm.** LeetCode
- Certificate on React JS Hands on Course. Certificate

Technical Skills

Languages: JavaScript, Java, Typescript, C#, HTML/CSS, SQL
Technologies/Frameworks/Libraries: Node.js, GraphQL, REST Apis, Express.js, Kafka, Docker, Microservices
Databases: MongoDB, PostgreSQL, MySQL, Firestore
Cloud Services: AWS lambda, Google cloud functions, AWS S3, Google Cloud Storage
Developer Tools: Git, VS Code, Docker CLI, Kubernetes, ESLint, Terraform

Profile Links

- LinkedIn
- Leetcode
- Github