Akash Kumar

7218803630 akash.singh1200@gmail.com linkedin.com/in/akashsinnghh github.com/akashsinnghh

Profile Summary

Enthusiastic and adaptable software engineer with a strong foundation in information technology. Proficient in crafting intuitive cross-platform applications with expertise in React Native, Angular, and React.js. Proven ability to optimize web performance and implement real-time functionalities using cutting-edge technologies like Socket.io and MongoDB. Adept at agile methodologies and skilled in client interaction, problem-solving, and delivering seamless user experiences. Committed to continuous learning and leveraging technical expertise to drive innovative solutions.

Education

Sinhgad Institute of Technology, Pune **Aug 2016 – Nov 2021**

Bachelor of Engineering in Information Technology *CGPA: 7.4*

Experience

Software Engineer **Currently working**

Freelancing *Patna*

KabaadiWala | *React Native, Node.js, MongoDB, Redis, Amazon AWS*

- Tech Stack: React Native **(Frontend)**, Node.js with Express **(Backend)**, MongoDB **(Database)**, Redis **(Caching and Pub/Sub)**, Cloudinary **(Image Storage)**, Docker **(Containerization)**, Microservices Architecture, Twillio **(OTP Send)**, AWS **(EC2 instance deployment)**.
- Developed a social media-like marketplace app focused on connecting buyers and sellers of second-hand vehicle parts in **Bihar's Kabaadi market**. The app enables users to post ads, search products, and negotiate offline.
- Key Features:
  - **User Authentication:** OTP-based login with **JWT** for secure user sessions.
  - **Search and Filtering:** Full-text search using MongoDB with Redis for caching frequently searched queries.
  - **Ad Management:** Allowed sellers to post ads with image uploads stored on **Cloudinary**, including **geolocation data** for better discoverability.
  - **Performance Optimization:**Improved query response time by **40% using Redis caching** for homepage ads and search results..
  - **Microservices:** Designed modular services (User, Store, Gateway) for scalability and separation of concerns. Leveraged **Redis Pub/Sub** for seamless communication between User and Store services.
  - **Deployment:** Deployed on EC2 Instance AWS with Dockerized containers for a streamlined CI/CD pipeline.

Software Engineer **Feb 2023 – July 2024**

SumaSoft Pvt. Ltd *Pune*

O-Rickshaw(ONDC) | *React-native,ReactJs, Nodejs, MongoDB, Express, SSE, GCP*

- Lead **React Native** development for cross-platform travel app experiences with ONDC.
- Implemented real-time location tracking and navigation solutions using Google APIs, resulting in a 40 percent decrease in average delivery times, enhancing customer satisfaction for over 1,000 clients and reducing operational costs.
- Implement **Server-sent-events (SSE)** for real-time updates from the server to the client.
- Developing intuitive admin panels using ReactJs and TypeScript to improve usability.

App-Connector(ONDC) | *Nodejs, MongoDB, Express, SSE, Apache Kafka*

- Designed and developed an intermediary app connector to facilitate ONDC API communication for sellers.
- Implemented simplified API endpoints for sellers, reducing the complexity of integrating with ONDC APIs.
- Constructed ONDC-compliant request bodies by mapping seller data to the required format.
- Integrated Apache Kafka to enhance the speed and reliability of message communication between components.
- Handled server-sent events (SSE) from ONDC and push notifications, ensuring real-time updates and notifications to sellers.

Solution Analyst **Jan 2022 – Oct 2022**

Sankey Solutions Pvt. Ltd *Thane*

Tata FleetEdge | *React-Native*

- Utilize Frontend Technologies including **Angular, React.js, React Native**.
- Improve web application performance, reducing size and loading time to **1.9 seconds**.
- Demonstrate basic knowledge of **Jenkins** and **Jira Software**.
- Work in an agile model and actively participate in **SCRUM meetings**.

Projects

AI-Powered Doctor Assistant | *ReactJs, Nodejs, MongoDB, .OpenAI API, Groq API, Hugging Face* **July 2024**

- Developed a Doctor Assistant application, **DOC AI**, using **React JS** for the frontend and **Node JS, Express JS** for the server-side.
- Utilized **.OpenAI API, Groq API, Hugging Face** for AI generated medical suggestions.
- Built a virtual doctor assistant providing medical advice and India-specific medicine recommendations based on patient data.
- Integrated OpenAI GPT-3.5 Turbo API for personalized responses and explored cost-effective alternatives like Hugging Face..
- Designed a secure backend for processing patient data and API integration, ensuring scalability and localization..

Real-Time Chat Application with ChatBot | *ReactJs, Nodejs, MongoDB, Express, Socket.io* **November 2022**

- Developed a real-time chat application, **Talk-A-Tive**, using **React JS** for the frontend and **Node JS, Express JS** for the server-side.
- Utilized **Socket.io** for real-time communication and **MongoDB** for storing user details in an encrypted format.
- Implemented features such as authentication, real-time chatting, one-to-one chat, search users, create group chats, notifications, add or remove users from a group, and view other user profiles.

Weather Application | *Open Weather API, HTML, CSS, JavaScript, ReactJS* **August 2022**

- Engineered a climate app empowering users to assess real-time weather conditions and predict whether the day will be cloudy or sunny.
- Used **Open Weather API** to get the latitude and longitude of the city and pass to the API and display the current temperature of the city.

Job Post Application | *Java, Eclipse, JavaFX* **October 2021**

- Designed a job post app where users can explore posted opportunities for specific positions.

Technical Skills

Languages: JavaScript, TypeScript, HTML, CSS
Lib/Frameworks: NodeJs, ReactJS, Redux.js, Angular, React-native, Express, Axios, SSE, React-Bootstrap, Firebase, Redis, Apache Kafka, JWT, Cloudinary
Developer Tools: VS Code, Google Cloud Platform, Android Studio
Technologies/Frameworks: Jenkins, GitHub, GitLab

Leadership / Extracurricular

- Achieved 2nd place among 40+ teams in the Coding contest of SIT's annual tech fest (2019), showcasing strong coding skills.
- Represented my school in several science quizzes.
- Actively participated in Event Management at SIT.
- NSS Department Leader for Sinhgad College 2018-19.
- Achieved 2nd Runner-Up position in MARATHON in Blue Bells Academy.