

Mohammad Arbaz Ahmed

Developer (Java)



SUMMARY

Full Stack Developer with expertise in building scalable **microservices architectures** and optimizing performance through advanced **data structures and algorithms**. Skilled in both **frontend** and **backend development**, leveraging technologies such as **React**, **Spring Boot**, **Redis**, and **Google Cloud Run** to build high-performance applications. Experienced in designing modular **microservices** for seamless data handling and real-time user interaction.

SKILLS

- **Programming Languages:** Java
- **Frontend Technologies:** React, HTML5, CSS3, Redux, Material-UI
- **Backend Technologies:** Spring Boot, RESTful APIs, Maven
- **Databases:** MySQL, MongoDB
- **Data Structures and Algorithms (DSA):** Hash Maps, Arrays and Linked Lists, Graphs and Graph Traversal (BFS/DFS), Priority Queues and Heaps, Tries and Inverted Indexes, Caching Strategies (LRU Cache, Redis), Sorting and Pagination Algorithms, Load Balancing Algorithms
- **Cloud Services:** AWS (EC2, S3, RDS, SES), Google Authentication
- **Libraries/Frameworks:** Hibernate, JPA, Spring Data JPA/MongoDB, Spring Security, Lombok
- **API Tools:** Swagger, Axios, Fetch API
- **Version Control:** Git, GitHub
- **Problem Solving:** LeetCode, HackerRank
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PROJECTS

OTT PLATFORM

 [Project Link](#)  [Github Repo](#)

Technologies Used: React, Redux, Material-UI, TMDB API, HTML, CSS, SpringBoot, Restful APIs, MongoDB, MySql, Axios, Swagger, Postman, Maven

Developed a dynamic OTT platform with TMDB API integration to provide up-to-date movie data. Created a responsive, user-friendly frontend using React, displaying movie information like titles, genres, release dates, and ratings. Implemented Redux for efficient state management, enhancing the app's scalability and performance.

Frontend (React + Redux):

- Developed a responsive and modular UI using Material-UI, allowing users to browse and filter movies by category, rating, and release date.
- Integrated Redux for consistent state management across genre filters, search results, and watchlists.
- Consumed TMDB API via Axios to display live movie data (titles, genres, release dates, ratings, etc.).
- Used Arrays and Filtering Algorithms to handle category-based sorting and search input.
- Implemented Debounce Logic to optimize search input and reduce API load.
- Enhanced UI performance using lazy loading and conditional rendering.

Backend (Spring Boot + MongoDB + MySQL):

- Built RESTful APIs for user authentication, movie browsing, and personalized watchlists using Spring Boot.
- Used MySQL for user data and MongoDB for dynamic movie metadata fetched from TMDB.
- Implemented MongoDB queries in Java to support advanced filtering features:
 - Genre-based filters (e.g., Action, Comedy, Romance)
 - Release date range search
 - Sort by rating/popularity
 - Title-based keyword search etc.
- Optimized performance by indexing fields like genre, release date, and title in MongoDB.
- Used Hash Maps and custom caching logic to reduce redundant DB calls.
- API testing was done via Postman; documentation via Swagger ensured clarity and maintainability.

Technologies Used: React, Redux, Material-UI, Weather API, HTML, CSS, Axios.

Built a fully responsive, real-time weather dashboard using React and Redux, enabling users to search for global cities and instantly view live weather conditions (temperature, humidity, wind speed, etc.). Integrated Leaflet.js to display an interactive map, dynamically pinning each location based on user input via geocoding APIs.

- Consumed third-party Weather APIs using Axios to fetch accurate, real-time weather data.
- Managed application state with Redux to ensure seamless UI rendering and consistent data flow.
- Applied debounce algorithms for optimized search input handling, minimizing API calls.
- Implemented form validation using regex to ensure accurate and secure user input.
- Designed a mobile-friendly, accessible UI with Material-UI, ensuring a smooth experience across all devices and screen sizes.

KEY CONTRIBUTIONS

- **Optimized Performance:** Enhanced application speed and efficiency by implementing data structures and algorithms, including Hash Maps, Arrays, Linked Lists, Graphs, Priority Queues, Tries, and various caching mechanisms. **Scalable Architecture:**
- Designed a modular microservices structure deployed on Google Cloud Run, enabling real-time data processing and efficient request management across distributed services.

CERTIFICATIONS

Program Completion Certification [Certificate](#)  **ACADEMIX**

Frontend Developer Certificate [Certificate](#)  **HackerRank**

Java Certificate [Certificate](#)  **HackerRank**

EDUCATION

Degree-B.sc(Mpcs) - 2024 -CGPA: 8.22%
Govt Degree College (Aut) Siddipet.

Intermediate Junior College -MPC- 2021 - 804 Marks
Sneha Junior college Ramayampet..

SSC- 2019 - CGPA: 9.8%
VivekanandaVidyalayamHigh School Ramayampet