

Syam Kumar Nallamilli

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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**, to build high-performance applications. Successfully improved system performance by **25%** through advanced caching strategies. Experienced in designing modular **microservices** for seamless data handling and real-time user interaction.

Education

Pragati Engineering College - (JNTUK) , BTech in Electronics and Communication Engineering 2019 – 2023

- CGPA: 7.37/10

Skills

- **Programming Languages:** Java
- **Frontend Technologies:** React, HTML5, CSS3, Redux, Material-UI
- **Backend Technologies:** Spring Boot, RESTful APIs, Maven
- **Databases:** MySQL, H2DB
- **Data Structures and Algorithms (DSA):** Hash Maps, Arrays and Linked Lists, Graphs and Graph Traversal (BFS/DFS), Priority Queues and Heaps, Caching Strategies (LRU Cache, Redis), Sorting and Pagination Algorithms, Load Balancing Algorithms
- **Cloud Services:** AWS (EC2, S3, RDS), 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:** HackerRank

Projects

MICROTWEET – SCALABLE SOCIAL PLATFORM WITH MICROSERVICES ARCHITECTURE

- Built a scalable social media platform using microservices architecture, featuring user profiles, tweet handling, and search functionality
- **User Profiles and Authentication:** Used Hash Maps for session management and Tokens , BCrypt for secure password encryption.
- **Tweet Posting and Retrieval:** Implemented B-Trees for tweet indexing and Linked Lists for tweet order.
- **Following System:** Modeled user relationships as Graphs (Adjacency List) and used Graph Traversal (BFS/DFS) for follow suggestions.
- **Timeline Feed:** Used Priority Queues for feed sorting and Redis for caching.
- **Hashtags and Search:** Implemented Tries for hashtag autocomplete and Inverted Index for keyword search.
- Improved system performance by 25% using Redis for caching and Priority Queues for feed sorting.
- **Technologies Used :** React, Spring Boot, Data Structures and Algorithms

OTT PLATFORM

[github](#) | [Live Demo](#)

- Developed an OTT platform integrated with RESTFUL API to display movie details like titles, genres, and ratings.
- Created a responsive frontend using React and managed state with Redux for seamless user experience.

- Built a backend with Spring Boot and MySQL for efficient data handling and API integration.
- **Impact:** Increased user engagement by 20% through a responsive frontend and efficient backend API integration.
- **Technologies Used :** React, Redux, Material-UI, Weather API, HTML, CSS, SpringBoot, MySql, Axios.

MEETING SCHEDULE APP

[GitHub](#)

- Developed a Meeting Scheduling application backend using Spring Boot, enabling seamless login functionality for both users and admins.
- Users can log in to view and select their available time slots, while the admin can access and review selected slots to identify common availability across users.
- The system automatically displays overlapping slots, allowing the admin to finalize meeting times efficiently.
- **Technologies Used:** Spring Boot, RESTful APIs, Postman, Maven

Certifications

- Java Full Stack Developement , Academix [View Certificate](#)
- Java Certification - HackerRank [View Certificate](#)