

RAJYAGURU HIR

B.Tech Information Technology | 2nd Year

Email: hirrajyaguru@gmail.com | Portfolio: <https://portfolio-hir.vercel.app/>
GitHub: <https://github.com/H-1709> | LinkedIn: <https://www.linkedin.com/in/hir-rajyaguru/>

TECHNICAL SKILLS

Languages: Java, C
Web & Backend: React, Next.js, Express.js
Databases: MongoDB
Core CS: Data Structures and Algorithms, Object-Oriented Programming, Time and Space Complexity
Tools: Git, GitHub, Postman

PROJECTS

Intelligent Interview Scheduler & Skill Matcher

Java | Express.js | MongoDB | Next.js
GitHub: github.com/H-1709/interview-scheduler

- Designed and implemented an intelligent interview scheduling system to match candidates with interviewers using hash-based skill scoring.
- Applied greedy algorithms to allocate interview slots while resolving candidate and interviewer availability conflicts.
- Optimized scheduling efficiency by prioritizing interviewer skill overlap, reducing manual conflicts in simulated test cases.
- Analyzed time complexity of matching and scheduling operations to improve performance and scalability.

Smart Issue Tracker with Priority Engine

Java | React | MongoDB
GitHub: github.com/H-1709/issue-tracker

- Built a priority-driven issue tracking system that dynamically ranks issues based on severity, frequency, and user impact.
- Implemented custom comparator logic using heap and priority queue concepts for real-time task reordering.
- Used hash-based indexing for fast issue lookup, updates, and status tracking.

Mini Search Engine (Document Indexing System)

Java | Data Structures
GitHub: github.com/H-1709/Search-engine

- Implemented a keyword-based document search engine using inverted indexing techniques.
- Optimized search operations with hash maps to enable faster query retrieval.
- Evaluated time-space tradeoffs involved in indexing and searching large document sets.

EDUCATION

Bachelor of Engineering in Information Technology
Expected Graduation: May 2028

ADDITIONAL INFORMATION

- Strong foundation in algorithmic problem solving and backend system design.
- Experience building full-stack applications with emphasis on logic and performance.