

# RAJ KUSHWAHA

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## Experience

### Vudio.ai (Formerly Lively) ↗

Aug 2024 – Present

Software Developer Engineer

Bengaluru, Karnataka

- Created REST APIs using Node.js, Express.js, MongoDB, Redis, and AWS reducing API response latency by 30% through implementing **caching, query optimization, indexing, pagination, and engineering principles**.
- Built an LLM-based multi-agent microservice using **LangGraph/LangChain**, robust shared state management, Redis caching with write-behind DB updates, enabling smooth multi-agent routing.
- Engineered a modular live-streaming platform using SQS, Redis, and WebSockets, reducing API rate-limit hits by 95% and cutting comment-delivery latency from 1.2s to 250ms.
- Engineered a **SQS job polling and execution system** with **p-limit-based concurrency control**, and an event-driven scheduler that triggers only on job availability, replacing inefficient cron cycles and reducing compute overhead.
- Built a **distributed Feed Syncing and Deletion Pipeline** with automated retry logic, and CDN-ready plug-ins, increasing sync success rates, eliminating manual failures, and reducing streaming transfer costs by **47%**.
- Designed and Deployed a **Bulk Feed Management Pipeline**, handling mass product imports, metadata synchronization, reducing manual data operations by over **70%**.
- Created an **AI-driven video scheduling pipeline** that batch-processes product URLs into AI-generated videos, orchestrates multiple model workflows, and auto-publishes to social platforms, delivering a **90%** reduction in content production time.
- Implemented a custom tagged feed and file management system with nested folders, efficient file search, drag-and-drop support, and a parent-child schema for fast tree traversal using safe **DFS traversal (no circular loops)**.

### DesiQNA ↗

Oct 2023 – Jan 2024

Frontend Developer Internship

Remote Mumbai, Maharashtra

- Designed responsive website using HTML, CSS, JavaScript, ReactJS and TailwindCSS.
- Worked on User Verification/Authentication, reduced **35%** bot user and builded specific section of the official site.

## Technical Skills

Languages : Java, Javascript, Python, SQL

Frontend : HTML, CSS.

Backend : Node.js, Express.js, MongoDB, Redis, JWT, AWS(Lambda,S3,Layers,SQS,S3,ECS), RESTAPIs, FastAPI.

AI : LangGraph, LangChain, LLM Models.

Tools : Github, VisualStudio Code, PostgresSQL, Postman, Bitbucket.

Concepts: Data Structure and Algorithm, OOPs, DBMS

## Education

### PSIT-College Of Engineering

Dec 2020 - Jun 2024

Bachelor of Technology in Computer Science and Engineering(CGPA of 7.95)

### Intermediate

Apr 2019 - Mar 2020

Indian Certificate of Secondary Education (Percentage of 86.75%)

## Projects

### Advance Airways Ticket Booking | Node.js, Express.js, MongoDB, JWT, OpenAI | ↗

Aug 2024 – Sept 2024

- Developed **RESTful 10+ CRUD APIs** for user and flight management, enabling seamless ticket bookings or cancellations.
- Integrated email notification mail service for flight delays and scheduled a 12-hour notification **cron** job for timely user alerts.
- Make custom API solution using **OpenAI** api to streamline customer interactions with queried suggestions,average resolution time 1-2 minute per inquiry, elevating service efficiency in ticket system.

## Achievements

\* Ranked **755th** in the Codekaze, national coding competition. ↗

\* Secured **6th** Rank in Codewar, organized as a college coding hackathon. ↗

\* Contributed to **Hacktoberfest '22** by submitting successful PR requests for open source project.

\* Achieved **5\*** ratings and **Gold badge** in Java on HackerRank. ↗

## Certification

\* Certificate of Excellence in Java. ↗

\* Completion of Web Development Certificate by Coding Shuttle. ↗

\* 100days of Completing Programming Challenge by CodeIN Community. ↗