

MOHIT RAJ

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EXPERIENCE

- **Squadra Media**
*Backend Developer*Bangalore, India
July 2024 - Present
 - Designed and developed scalable APIs using GraphQL and Node.js, handling data for over 50k+ users to ensure efficient and high-performance operations for Seaverse Learning Management System.
 - Implemented features for generating reports including course reports, course enrollment reports, Learner data export reports, and module-wise learner reports. Information was extracted from multiple schemas using MongoDB aggregation pipelines, data was compiled and converted into CSV files, securely uploaded to AWS S3, and provided the S3 link in API responses.
 - Implemented the Learning Plan feature, allowing multiple admins to create plans in which learners are enrolled based on specific criteria. Designed email templates and set up email and push notifications for learners and admins.
 - For bulk enrollment of learners into courses, RabbitMQ was utilized with the queue mechanism to process learners' enrollments in parallel, ensuring that all learners were efficiently enrolled, one by one, in the selected courses.
 - Developed the Auto-enrollment feature, enabling new learners (registered via admin or direct signup) to be automatically enrolled in relevant courses if they match the learning plan criteria, with real-time email and push notifications sent to their dashboards.
 - Using AWS S3 to securely store and efficiently retrieve over 10k+ pieces of course content, optimizing access speed, ensuring redundancy, and maintaining data security.
 - Implemented Elastic Search for indexing learner data, including personal details, course information, and enrollment history, allowing faster retrieval and better search capabilities.
 - Designed and enforced encryption and decryption mechanisms for storing sensitive learner data (such as first name, last name, email, employee Id) in database to enhance data privacy and meet security compliance requirements.
 - **RoboMQ**
*Software Engineer Intern*Jaipur, India
Jan 2024 - June 2024
 - Developed and enhanced backend APIs using Node.js to establish and manage connections between HR systems and Active Directory (AD), supporting automated one-directional sync of employee lifecycle events such as onboarding, terminations, and profile updates.
 - Designed a loopback feature to enable bi-directional sync between Active Directory and HR systems, allowing real-time updates from AD (e.g., username, email) to sync back to HR platforms. This enhancement improved system efficiency and saved hours of manual intervention for clients.
 - The feature enhancements and optimizations impacted over 10k+ users on a daily basis across multiple enterprise clients, significantly improving backend performance, data integrity, and workflow automation. system efficiency and saved hours of manual intervention for clients.

PROJECTS

- **Job Portal (Backend)** : Developed a scalable backend for a job portal using Node.js, TypeScript, and MongoDB, deployed on AWS. Optimized performance with aggregation pipelines, rate limiting, structured logging, Zod validation, modular architecture, reusable middleware, and centralized error handling, ensuring scalability and production readiness.
Deployed URL
 - **AdmitBit (Android App)**: AdmitBIT is a software system that streamlines admissions. It offers form filling, seat upgrades, and secure fee payments via Razorpay. Users can access brochures, seat matrices, and perform tasks like admission withdrawal and document verification. User-friendly login options and a feedback feature enhance the admission process. Skills: Java, XML, Firebase, Firestore, Android Studio. [GitHub Link](#)

SKILLS SUMMARY

- **Technical Skills:** Java, JavaScript, TypeScript, Node.js, REST APIs, GraphQL, OOPS, SQL, NoSQL
 - **Tools & Platforms:** Git, GitHub, Bitbucket, Jira, Postman, Android Studio
 - **Soft Skills:** Problem Solving, Teamwork, Time Management

EDUCATION

- **Birla Institute of Technology and Science , Pilani** India
Masters of Technology in Artificial Intelligence and Machine Learning - Work Integrated Learning Programme July 2025 - July 2027
 - **Birla Institute of Technology , Mesra** Jharkhand, India
Bachelor of Technology in Computer Science and Engineering CGPA: 8.01/10.0 Nov 2020 - June 2024