HARSH KUMAR SINGH

Team Lead | MERN Stack | 5+ yrs Experience in Soft Dev

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Immediate Joiner

Highly skilled **Team Lead** with a strong background in **Node.js & MongoDB**. Proven track record of leading teams to deliver complex projects, achieving a 20% increase in project delivery speed. Experienced at converting monolithic applications to **microservices** architecture, implementing multi-tenancy, and **optimizing** database performance leading to a 30% cost reduction. Experienced in **Agile** methodology and test-driven development.

SKILLS					
Javascript	MongoDB	Git	Jest	Redis	
NodeJS	Microservices	Kafka	ReactJS	Docker	
ExpressJS	AWS (EC2, S3, SES)	SonarQube	Clickup	Multitenancy	

WORK EXPERIENCE

Team Lead - Backend

Dhwani RIS, Gurgaon, HR

(Aug'20 - Present)

- Successfully converted the company's core product mForm from Monolithic to Microservices Architecture for 8 critical modules enhancing scalability and agility. Some include Role-based User Management, Dynamic Form & Dashboard builder, Monitoring Reports/Dashboards using Aggregation Pipelines etc.
- Developed and designed reusable high-performance dashboard components using NodeJS and ExpressJS, resulting
 in a time-saving of 125+ dev. hours/month.
- Initiated Jest test cases from scratch, establishing a robust testing culture for both the products.
- Developed a Data Synchronization tool using Sequelize ORM to sync data from MongoDB to MySQL DB (50+ Lakh data) from scratch for BI tool integration saving 30-40% of development effort for custom projects.
- Cost Optimization Optimized DB, leading to significant cost savings of ₹55-60k monthly on production servers.
- Implemented multi-tenancy seamlessly, expanding product capabilities, and facilitating data migration.
- Leveraged Kafka for data pipelines, ensuring real-time event logging and streamlined bulk data processing.
- Virtualized servers using Docker Containers for test/dev environments, and Jenkins continuous integration.
- Accountable for the overall SDLC process. Implementing agile methodology across the entire product team.
- Elevated code quality through rigorous code reviews, resulting in a notable improvement in SonarQube grade.
- Led a team of ~10 engineers in building core products (mForm & mGrant) with a success of 25+ clients.

Software Engineer

(Jan'19 - Jul'20)

Oxygen 2 Innovation: Noida, UP

- Developed Backend REST APIs for IoT projects using NodeJS and MongoDB.
- Developed AdTracker, a tool for tracking 3 types of Advertisements(i.e FCT, Non-FCT, Branding) on live TV.
- Created a Situational Awareness System for real-time object detection integrated with Army vehicles to detect and alert them about 18 different suspicious activities which arise in different Riot situations.
- Worked on IoT projects including IECS for Health Monitoring and Position Tracking of soldiers and Smart Plug for educational purposes.
- Led and managed software-related activities and projects
- Introduced tools like Git (Version Control) & ClickUp (Project Management) in the organization's workflow.
- Worked on various robotics projects, including ATVs, payload delivery drones, and Al-powered smart mirrors.
- Contributed to building a tool to calculate drone flight time based on input parameters.

ACHIEVEMENTS & HONORS

- ★ Coding Standards Core Team (Dhwani RIS) (01/2024) Contributed to coding standards and practices.
- ★ Team Leadership Award (05/2023) Delivered features on time, addressed critical bugs, and led team-building
- ★ Going Extra Mile Award (08/2022) Consistently exceeded daily deliverables and built effective products.
- ★ Demonstrated Robotics project to Directorate of General of CRPF (2020)
- ★ Published Research Paper in IC3 Conference 2019 on the topic "A step towards Home Automation using IoT"

EDUCATION

Degree	Discipline	Institute
B. Tech.	Computer Science	Jaypee Institute of Information Technology, Noida (2019)
Senior Secondary	CBSE	Delhi Public School, Agra (2015)
High School	CBSE	Delhi Public School, Agra (2013)

HOBBIES

HOBBY PROJECTS

- Booking Management System: MERN app to manage bookings for a Banquet Hall
- **Switch Simply**: An integrated home automation system that enables users to operate their appliances via a web app developed using MERN. Used MQTT protocol for the seamless communication for IoT devices.
- WhatsApp Chat Analyser: An app that visualizes the number of text messages sent by the user and time spent on WhatsApp.