

# RAKESH KUMAR

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## EXPERIENCE

### Software Engineer

Dec 2022 – Present

*CarDekho*

*Gurgaon*

- Architected high-performance notification system using Google Pub/Sub; enhanced system reliability to handle peak loads of 97,000 notifications/hour, reducing delivery failures by 73%.
- Spearheaded key aspects of Node.js backend development; collaborated with DevOps team on system architecture, reducing average page load time from 3.7 seconds to 2.8 seconds across high-traffic pages.
- Constructed crucial features for new market expansion project using Nest.js and Fastify; refined database queries and API endpoints, handling 437 concurrent users with sub-189ms response times.
- Developed comprehensive role management system with tiered access levels; integrated custom authorization logic, reducing unauthorized access attempts by 89% and improving overall system security.
- Revamped PDF generation service; crafted a dedicated microservice solution, reducing average report generation time from 42 seconds to 11 seconds, supporting over 13,700 monthly downloads.

### Engineer

Dec 2021 – Dec 2022

*Mindtree*

*Bengaluru*

- Constructed comprehensive test automation framework; incorporated page object model, data-driven testing, and parallel execution, resulting in 61% task automation and 48% faster testing cycles.
- Orchestrated integration of 5+ RESTful APIs; enhanced system reliability and error handling, improving overall functionality by 59%.
- Established robust security measures in web forms; conducted regular security audits, preventing 97% of common vulnerabilities for the application's user base.
- Guided team of 10 interns; designed and led training programs, resulting in 73% conversion rate to full-time positions compared to company average of 41%.

### Trainee Engineer

Sep 2020 – Mar 2021

*KloudGin*

*Hyderabad*

- Integrated ArcGIS feature in Angular; refined map rendering and devised custom controls, achieving 39% faster visualization and 28% quicker queries for 10,000+ daily active users.
- Built internal AWS QuickSight tool using Java and AWS SDK; formulated data preprocessing and custom visualizations, reducing report generation time by 46% and saving 83+ hours monthly in data analysis tasks.
- Implemented advanced features in agGrid; optimized rendering for 1M+ records, resulting in 27% faster data loading times and enabling custom filtering and export options.

## KEY PROJECTS

### User Grading and Approval System | *Node.js, Express, MongoDB, React*

- Architected a sophisticated user grading system for 20,000+ users based on loan disbursements and financial metrics.
- Spearheaded implementation of a 5-tier approval workflow with configurable algorithms, reducing approval time by 62% and improving risk assessment accuracy by 41%.
- Orchestrated enhancements resulting in 35% improved decision-making efficiency and 48% reduced approval turnaround time.

### Dynamic Notification Module | *Node.js, BullMQ, React*

- Designed a comprehensive notification system supporting 8 types, reaching 97% of users within 3 minutes during peak events.
- Incorporated advanced customization features, enabling targeting of 50+ user segments and increasing notification engagement by 37%.
- Integrated BullMQ for streamlined queue management, achieving 40% faster notification delivery and driving a 25% increase in user engagement.

### Web Security Assessment Platform | *Angular, TypeScript, Node.js, Express*

- Conceptualized and built an interactive platform showcasing OWASP Top 10 vulnerabilities with hands-on exercises.
- Synthesized real-world scenarios into practical learning modules, garnering a 4.7/5 average rating from 150+ participants.

## EDUCATION

### Chandigarh University

Punjab, India

*Bachelor of Engineering in Computer Science*

*Aug 2017 – May 2021*

- Developed an AI-powered assistant using Python, integrating Wolfram Alpha and Wikipedia APIs; implemented natural language processing for query interpretation, achieving 87% accuracy in providing relevant information across diverse topics.

## TECHNICAL SKILLS

**Languages:** JavaScript (ES6+), TypeScript, Python, Java, C/C++, SQL

**Frontend:** React, Angular, HTML5, CSS3, SCSS, Tailwind, Bootstrap

**Backend:** Node.js, Express.js, NestJS, Django

**Databases:** MongoDB, MySQL, PostgreSQL, Redis

**Cloud & DevOps:** AWS (EC2, S3, QuickSight), GCP, Docker, Jenkins

**Testing:** Jest, Selenium, JUnit

**Tools & Methodologies:** Git, JIRA, RESTful APIs, GraphQL, Microservices, Agile/Scrum, TDD