RAKESH KUMAR

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EXPERIENCE

Software Engineer   Dec 2022 – Present
CarDekho   *Gurgaon*
- Contributed to a new NestJS and GraphQL project; spearheaded 3 key features end-to-end, including frontend UI, data modeling, and backend resolvers, adhering to PRD specifications and improving data retrieval efficiency by 25% for 200+ daily users.
- Architected a flexible role-based access control system; designed database schema for roles and permissions, developed frontend module for role management, and established backend middleware for API validation, reducing unauthorized access attempts by 75%.
- Devised a comprehensive target-setting and performance tracking system, integrating CSV uploads, real-time achievement visualization, and mobile notifications, resulting in a 30% increase in user goal attainment.
- Crafted a PDF microservice with customizable templates and data injection; reduced generation time from 15-20 seconds to under 5 seconds, supporting 13,700+ monthly reports, invoices, and forms across multiple services.
- Developed a role-based form system for dealership visits, featuring customizable questions and instant dealer acknowledgment, reducing form completion time from hours to 4-5 minutes and eliminating data loss.

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.
- Managed development and maintenance of client-specific RESTful APIs; enhanced system reliability and error handling, improving overall functionality by 59% and ensuring adherence to diverse client requirements.
- Executed comprehensive security measures across API endpoints and frontend; leveraged open-source vulnerability scanners and internal tools to conduct audits, mitigating 97% of common vulnerabilities and enhancing overall application security.
- Co-led a team of 20 interns with one other mentor; designed and conducted full-stack training program covering Node.js, MySQL, and React, resulting in 80% conversion rate to full-time positions, significantly above company average.

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.
- Created a Java-based tool interfacing with AWS CLI for QuickSight; automated report generation and dashboard creation, streamlining BI workflow and reducing end-to-end process time by 46%.
- Optimized advanced features in agGrid; enhanced rendering for 1M+ records, resulting in 27% faster data loading times and enabling custom filtering and export options.

KEY PROJECTS

Journey | *Node.js, Express, React, MySQL, MongoDB*
- Architected a sophisticated multi-tier evaluation system for 40,000+ financial agents, integrating configurable performance metrics and automated grading algorithms.
- Established a 5-tier hierarchical approval workflow, reducing evaluation time by 80%, significantly improving process efficiency.
- Streamlined final approval process, reducing processing time by 95% and eliminating manual data transfer errors.

Notification Module | *Node.js, React, Google Pub/Sub, Cloud Scheduler, MySQL*
- Engineered a flexible notification system with customizable types, frequency, and duration, improving user engagement by 37%.
- Deployed robust user targeting via CSV uploads and business line/role filters, enabling precise communication to 50+ user segments.
- Leveraged Google Pub/Sub and Cloud Scheduler for efficient notification processing, achieving 97% delivery within 3 minutes during peak loads without system degradation.

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