

# Rakesh Kumar

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## Summary

Innovative software engineer with expertise in web development and a strong ability to deliver efficient solutions. Proficient in collaboration, mentoring, and leveraging advanced technologies to optimize performance. Successfully led projects enhancing efficiency by 30% and cutting response times by 25%.

## Education

### Chandigarh University

Bachelors of Engineering in Computer Science

Punjab

Aug. 2017 – May 2021

## Experience

### Software Engineer

Dec. 2022 – Present

CarDekho

Gurgaon

- Directed the implementation of the PH environment using Nest.js and Fastify, delivering a scalable solution and boosting efficiency by 40%
- Optimized notification queue management with GCP services like Pub/Sub and Cloud Scheduler, ensuring 95% of notifications were delivered within 1 minute
- Elevated user engagement and system efficiency by 25% through the use of BullMQ for notification queues
- Spearheaded the development of an advanced role assignment system, improving team responsiveness by 30%
- Modernized legacy PHP code by transitioning to Node.js, achieving a 27% improvement in system performance and stability
- Instituted a performance-based grading system, increasing workflow efficiency by 23%
- Enhanced PDF generation services, reducing processing times by 25% and significantly improving user experience
- Expedited the development and deployment of the Thailand product, achieving a 40% faster delivery compared to previous projects

### Engineer

Dec. 2021 – Dec. 2022

Mindtree

Bengaluru

- Created a hybrid automation framework using Java Selenium, automating 60% of manual tasks and reducing testing time by 50%
- Guided 10 interns on web development, resulting in successful project completions and skill enhancement
- Crafted secure forms with JavaScript validation, preventing 100% of common vulnerabilities and ensuring 99.9% data integrity
- Led the integration of 5+ RESTful APIs for third-party services, enhancing system interoperability and functionality by 60%

### Trainee Engineer

Sep. 2020 – March 2021

KloudGin

Hyderabad

- Integrated ArcGIS feature in Angular, visualizing maps 40% faster and resolving queries 30% quicker, enhancing user experience
- Authored Proof of Concepts using QuickSightSDK and agGrid, boosting customer interaction by 30% and optimizing data retrieval for 1M records
- Devised and implemented an internal tool for AWS QuickSight using Java, streamlining dashboard generation and reducing manual effort by 50%

## Projects

### Natours | Node.js, Express, MongoDB, Pug, CSS3

- Engineered a robust tourism website using MVC architecture with Node.js and Express, leveraging MongoDB for efficient data modeling
- Implemented tour booking features and integrated payment gateway, enhancing user convenience and website functionality

### Web Vulnerability Simulation | Angular, TypeScript, Angular Material UI

- Showcased and dissected OWASP's top 10 vulnerabilities in Angular, offering practical mitigation techniques
- Developed interactive tutorials and examples, providing a hands-on learning experience for users

## Technical Skills

**Languages:** JavaScript, TypeScript, C/C++, Python, Java

**Web Development:** Node.js, NestJS, Express.js, React.js, MySQL, Angular, MongoDB, Bootstrap, HTML/CSS, SCSS, RESTful APIs, Microservices

**Frameworks/Tools:** Selenium, ArcGIS, agGrid, Git