

# Ritik Kumar

Linkedin: [linkedin.com/in/ritikkumar34](https://www.linkedin.com/in/ritikkumar34)  
GitHub: [github.com/Ritikkumar993](https://github.com/Ritikkumar993)

Email: [ritiksah99344@gmail.com](mailto:ritiksah99344@gmail.com)  
Mobile: +91-9523003412

## SKILLS

- Languages:** C++, JavaScript, Java, Python
- Frameworks:** React.js, Express.js, jQuery, Node.js, Tailwind CSS, Bootstrap, GitHub Actions
- Tools/Platforms:** MySQL, MongoDB, PostgreSQL, GIT, Linux
- Soft Skills:** Problem-Solving Skills, Team Player, Project Management, Adaptability

## EXPERIENCE

- Outlier** Dec 2024 – Jan 2025
  - Freelancer*
    - Evaluated and refined over 3,000 data points using Python and JSON to improve the accuracy of the AI training model, resulting in a 15% reduction in model errors.

## PROJECTS

- URL Shortener** Feb 2025 - Present
  - Developed a scalable URL shortening service handling 50K+ requests/day with MongoDB sharding and Redis caching for optimized performance.
  - Implemented custom short links, QR code generation, and expiration-based URL management for enhanced usability.
  - Orchestrated the deployment of applications using Docker, Kubernetes, and Nginx, achieving auto-scaling capabilities and reducing server downtime by 99% while serving 1M+ requests daily.
  - Integrated rate limiting, input validation, and analytics tracking for security and monitoring.
  - Tech Stack:** Next.js, TypeScript, MongoDB, Redis.
- Grocery Nest - A grocery delivery web app:** Oct 2024 – Nov 2024
  - Engineered a highly scalable system with Firebase, supports 100k concurrent users and handles 50k authentication requests per minute.
  - Optimized real-time updates for large user bases and growing data demands.
  - Ensured WCAG-compliant, keyboard navigation, screen reader compatibility, high contrast mode.
  - Designed a user-friendly interface with secure authentication and a fully responsive layout.
  - Deployed using Firebase for seamless hosting and management.
  - Tech Stack:** React.js, Tailwind CSS, Firebase, Firebase Authentication.
- Study Buddy:** July 2024 –Aug 2024
  - Developed an On-demand mock interviews platform aid students in academic and career navigation.
  - Integrated mock interviews, resume-building tools and career path guidance.
  - Handling 5,000+ users, 500GB data, 500,000 ops/day.
  - Enhanced accessibility with keyboard navigation support, screen reader compatibility, and high contrast mode.
  - Tech Stack:** Python, Streamlit, REST API, OnDemand-RESTAPI-Agent.

## CERTIFICATES

- Dynamic Programming, Greedy Algorithms by University of Colorado Boulder Feb 2024–Mar 2024
- The Bits and Bytes of Computer Networking by Google Jan 2024–Feb 2024
- Generative AI with Large Language Models by DeepLearning.AI and Amazon Web Services Mar 2024–Apr 2024
- Server side JavaScript with Node.js by NIIT Mar 2024–Apr 2024

## ACHIEVEMENTS

- Secured Global Rank 9,152th:** Jan 2025
  - Among 31k+ participants in Leetcode Biweekly Contest 148
- Winner (1<sup>st</sup> Place) - CODE CARVAN 2.0 Hackathon:** Jun 2024
  - Secured 1st place in the Hackathon conducted by Love Babber.
- Runner-up (2<sup>nd</sup> Place) - CODE Off Duty Hackathon:** Apr 2024
  - Achieved 2<sup>nd</sup> place in the hackathon.

## EDUCATION

- Lovely Professional University** Punjab, India
  - Bachelor of Technology - Computer Science and Engineering; CGPA: 8.10* Since Jan 2025
- Gurukul Vidyapeeth** Hajipur, Bihar
  - Intermediate; Percentage: 74%* Apr 2020 - Mar 2022
- Vishashvi Public School** Patna, Bihar
  - Matriculation; Percentage: 81%* Apr 2019 - Mar 2020