

# RITIK KUMAR SEN

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Portfolio

## Education

Indian Institute of Information Technology Bhagalpur

Nov 2022 – July 2026

Bachelor of Technology in Computer Science and Engineering

Bhagalpur, Bihar

Grade: 9.1 (SGPA), 8.4 (CGPA)

## Skills

**Languages:** Python, C++, C, JavaScript, SQL, HTML, CSS

**Tools & Frameworks:** Django, Django REST Framework, PostgreSQL, Git, GitHub, Render, Selenium

**CS Fundamentals:** Data Structures, Algorithms, OOP, DBMS, OS, Computer Networks

**Development Skills:** REST API, Authentication & Security, Database Management, Web Scraping

## Projects

QuIQ | Django, HTML, JavaScript, PostgreSQL |

Sep 2024 - Nov 2024

- Engineered a **full-stack quiz platform** with **scalable architecture** for seamless user experience.
- Integrated **automated grading**, reducing **manual effort** by **90%**, and introduced **time-restricted** quizzes with **customizable settings**.
- Led a **cross-functional team** of **5**, enhancing project efficiency by **20%** through strategic collaboration.
- Incorporated **real-time analytics** with **interactive charts**, improving **student engagement** by **40%**.

Sen's Sphere | Django, PostgreSQL, HTML, CSS |

July 2023 - Sep 2023

- Developed a **blogging platform** supporting **user authentication**, **comments**, and **post management**.
- Leveraged **PostgreSQL** for **efficient data storage** and launched on **Render**.
- Integrated **Google OAuth** for **seamless login** and improved user authentication.

Zephyre | Django, OpenWeatherMap API, Render, PostgreSQL |

Apr 2023 - May 2023

- Created a **real-time weather app** powered by **OpenWeatherMap API**.
- Implemented **city search**, **temperature forecasts**, and **wind speed tracking**.
- Deployed on **Render** with **PostgreSQL** for **user preferences**.

## Achievements

- Solved 250+ Data Structures and Algorithms Problems:** Practiced extensively on **LeetCode** and **GFG**, enhancing problem-solving skills.
- Developed and Deployed Scalable Full-Stack Applications:** Built production-ready **Weather App**, **Blogging Platform**, and **Online Quiz System** using **Django**, **PostgreSQL**, and **REST APIs**.
- Algorithm Optimization in DSA Project:** Designed and implemented an optimized **2D Range Tree** for **Nearby Restaurants Search**, achieving efficient spatial query processing using **Chebyshev Distance**.

## Extracurricular

- NISM Certified:** Secured **82%** in the certification exam, demonstrating proficiency in securities markets and trading concepts.
- Stock Market Enthusiast:** Analyzed **500+ stocks**, executed **100+ trades**, and developed **risk-mitigation strategies**.
- Freelance Photographer:** Captured and edited **100+ high-quality photographs**, specializing in **landscapes and events**.
- Smart India Hackathon (SIH) Qualifier:** Qualified at the college level, showcasing innovation and practical application of technical skills.