RITIK KUMAR SEN

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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.