

# Rakesh Ranjan

Portfolio: myportfolio.com

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## EDUCATION

- National Institute of Technology Kurukshetra** Haryana, India  
*Bachelor of Technology - Computer Science Engineering; GPA: 8.2* July 2019 - June 2023  
*Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases*

## SKILLS SUMMARY

- Languages:** Python, C++, JavaScript, SQL
- Frameworks:** Scikit, NLTK, SpaCy, TensorFlow, Keras, Django, Flask, NodeJS, LAMP
- Tools:** Kubernetes, Docker, GIT, PostgreSQL, MySQL, SQLite
- Platforms:** Linux, Web, Windows
- Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

## EXPERIENCE

- Synopsys Inc.** July 2023 - Present  
*Research & Development Engineer*
  - Contributed to the CDC (Clock Domain Crossing):** by identifying and fixing bugs in the Synopsys VC SpyGlass tool, enhancing its reliability and performance.
  - Implemented enhancements:** that improved the efficiency of the tool.
  - Collaborated with cross-functional teams :** to gather requirements, understand user needs, and ensure the tool met industry standards.
  - Conducted code reviews :** and provided mentorship to junior developers, promoting best practices in C++ development
  - Participated in Agile development processes :** contributing to sprint planning and retrospectives to improve team productivity.
- Centre of Railway Information Service (CRIS)** Remote  
*Full Stack Django Developer (Internship)* Jan 2022 - August 2022
  - Developed and implemented:** An online form approval process, transitioning from a previously offline system to enhance operational efficiency
  - Designed a hierarchical approval workflow:** allowing for streamlined decision-making and improved tracking of form submissions, collaborated with cross-functional teams to gather requirements and ensure user needs were met, resulting in a user-friendly interface.
  - Techstacks:** Utilized Django for backend development, focusing on models, views, and templates, while integrating database solutions to support data storage and retrieval, along with django used postgresql for the database

## PROJECTS

- Text Summarizer Web App :** (Jan 2023 - April-2023) Developed a web application that summarizes text based on word count, enhancing user efficiency in processing large volumes of information, leveraged Python's inbuilt text summarization libraries to analyze and condense text, focusing on key concepts while maintaining context and coherence, along with a responsive user interface using Django, HTML, CSS, JavaScript & AJAX Tech: Python, Django, AJAX, HTML, CSS & JavaScript
- PortFolio Website :** (Oct 2024 - present) I created a responsive and interactive portfolio website using Tailwind CSS, Node.js, and Express.js. The website showcases my projects, skills, and professional experience, with a focus on clean design and smooth navigation. I utilized Tailwind CSS for rapid styling and consistent design elements across the site, resulting in a visually appealing and cohesive user interface. The backend, built with Node.js and Express.js, ensures fast and reliable server-side processing, allowing for dynamic content updates and smooth user interactions. Through this project, I emphasized modular code structure, ensuring scalability and maintainability for future updates

## HONORS AND AWARDS

- Topper in the Secondary and Higher Secondary
- Second Runner's Up at College Hackathon - September, 2019

## VOLUNTEER EXPERIENCE

- Shiksha Society (NITK)**
  - Collaborated with fellow volunteers to organize events and activities aimed at enriching the learning experience for the children of mess-staffs and other workers at college*
- Event Organizer**
  - Organized events like college annual fest (TechSpardha, Confluence)*