

# Sanjana Suresh

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## ABOUT ME

Third-year Computer Science Engineering student at RNS Institute of Technology (RNSIT), Bengaluru. Passionate about full-stack development, secure systems, and AI. Committed to building impactful, real-world solutions with strong collaboration and continuous learning..

## PROJECTS

- **Margnify – A Smart Tour Guide** Jan 2025 – Present  
*Technologies: Flask, Leaflet.js, OpenStreetMap API, BeautifulSoup, Scrapy, NetworkX, HTML, CSS, JavaScript, Python* [\[🌐\]](#)
  - Developing a smart tour guide web application to assist users in navigating heritage sites with personalized routes and landmark information.
  - Integrating OpenStreetMap and Leaflet.js for real-time map rendering and using NetworkX to compute shortest paths with Dijkstra's algorithm.
  - Building web scraping modules using BeautifulSoup and Scrapy to fetch historical and visitor-related data dynamically from tourism websites.
  - Implementing dynamic location detection and interactive backend logic for user-selected landmark routing and optimized tour planning.
- **Multi-Factor Authentication System** Sep 2024 – Dec 2024  
*Technologies: Django, Python, MySQL, JWT, DeepFace, HTML, CSS, JavaScript, PIL* [\[🌐\]](#)
  - Designing a secure multi-factor authentication system combining password hashing, session-based token validation, and facial recognition.
  - Implemented Django-based backend for user authentication, secure password storage using PBKDF2, and tokenized session management via JWT.
  - Integrated DeepFace for facial verification, enabling biometric authentication as a second factor alongside traditional login credentials.
  - Developed a secure password reset mechanism utilizing refresh token validation and expiry handling to safeguard user access.
  - Built frontend interfaces using HTML/CSS/JS with camera input for facial authentication and dynamic validation prompts.
- **Responsive Resume Website** Apr 2024 – May 2024  
*Technologies: HTML, CSS, JavaScript* [\[🌐\]](#)
  - Built a modern, responsive resume website using HTML and CSS, tailored to showcase an individual's professional profile.
  - Designed a clean and mobile-friendly layout with smooth scrolling and section-based navigation.
  - Customized styling to highlight education, experience, projects, and skills with minimal JavaScript enhancements.
  - Optimized the site for cross-browser compatibility and deployed it on GitHub Pages for public access.

## EDUCATION

- **RNS Institute of Technology** 2022 – 2026  
*Bachelor of Engineering in Computer Science ( CGPA: 8.21 / 10)* Bengaluru, India
- **Jain College ( Grade: 80%)** April 2022  
*Pre-University Education* Bengaluru, India

## SKILLS

**Languages:** C, Java, C++, Python, JavaScript | **FrontEnd:** React, Apache, HTML/CSS | **BackEnd:** Flask, Django, PHP | **Databases:** MySQL, MongoDB | **Tools/Technologies/Cloud:** Git, Unix, Docker, Airflow, Informatica Cloud, Apache JMeter | **Visualization Tools:** Tableau, QuickSight | **Machine Learning:** scikit-learn, NumPy, PyTorch, TensorFlow

## CERTIFICATIONS

- **OpenAI Generative Pre-trained Transformer 3 (GPT-3) for developers** [\[🌐\]](#) November 2024  
*Infosys Springborad*
- **Data Structures and Algorithms using Python** [\[🌐\]](#) July 2024  
*Infosys Springborad*
- **Database Management System** [\[🌐\]](#) June 2024  
*Infosys Springborad*
- **Introduction to DevOps** [\[🌐\]](#) April 2025  
*Great Learning*