

TANNU NAGAR

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PROFESSIONAL SKILLS:

Technical Skills: Python, AWS, MySQL, Flask, Linux, Docker, Kubernetes, Git, GitHub, NLTK, Web Scraping, Pandas, Cloud, Non-Relational Databases, Object-Oriented Programming, REST API, Programming, Software Development, Integration

Soft Skills: Multitasker, Adaptable, Quick Learner, Communication, Fast-Growing

EXPERIENCE:

- *Development:* Built a web application using Python and Flask, increasing user engagement by 20%.
- *Version Control:* Managed code with Git; hosted on GitHub, leading to a 40% improvement in code collaboration efficiency.
- *Data Handling:* Leveraged Pandas for analysis and web scraping for data collection, handling datasets of up to 1 million rows.
- *NLP:* Applied text processing with NLTK to process and analyze over 100,000 text entries.
- *Deployment:* Containerized applications with Docker, reducing deployment time by 50%.
- *Environment:* Ran services on a Linux server for reliability and performance, achieving a 25% reduction in downtime.
- *Database:* Implemented MySQL for data storage.

ACADEMIC PROJECTS:

Book Management System: Flask-based App (Apr 2023 - May 2024)

- *Deployment:* Dockerized application, deployed on AWS EC2.
- *Docker Image:* <https://hub.docker.com/repository/docker/tanunagar1/flask-book-app/general>
- *GitHub Repository:* https://github.com/Tanunagar1/book_management_library
- *Note:* EC2 instance [184.74.37.52:5000] is stopped due to AWS charges.
- **Impact:** Managed and tracked over 2,000 books, enabling 150+ users to access and manage library resources efficiently.

Flatmates Web App: Flask-based app (Jan 2024 - Mar 2024)

- Built a user-friendly web application to manage flatmate interactions and shared resources.
- Integrated form validation using WTForms and developed RESTful APIs, supporting 50+ active users.
- **Impact:** Enhanced communication and resource sharing among flatmates, reducing conflicts by 30%.

Weather Visualization: API-based Dashboard (Mar 2024 - Apr 2024)

- Created a Flask application fetching weather data from the Open Weather Map API.
- Visualized data using Matplotlib and returned weather parameters as JSON response, processing data for 500+ cities.