Tushar Saini

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PROJECTS

File Sharing System | http://13.50.73.200/ | [Code](#)
Nov 2023 - Dec 2023

- Created a user-friendly interface using **HTML, CSS and Jinja** for seamless interaction with the file-sharing system.
- Developed its backend using **Flask** (Python web framework) to handle server-side logic.
- Integrated **PostgreSQL (psql)** as the database for efficient data storage and retrieval.
- Implemented **RESTful APIs** for communication between the frontend and backend components, ensuring smooth data exchange.
- Enhanced security by implementing **Encryption** for download links and **Email Verification** for Client user.
- Hosted the application on **AWS EC2** for reliable and scalable cloud infrastructure.
- Utilized **Docker-Compose** for containerization, ensuring consistent deployment across various environments.
- Established communication between the frontend and backend using **Docker Networking**, ensuring seamless interaction between containers.
- Configured **Nginx** as the web server to efficiently handle incoming **HTTP** requests.
- Implemented a **CI/CD pipeline** using **Jenkins** and **Webhooks** for automated testing, building, and deployment, ensuring efficient and reliable development workflows.

Music Web App | http://sangeet.uk.to | [Code](#)
Oct 2023 - Nov 2023

- Designed and developed a music recommendation web application using **Flask, MySQL, HTML, CSS,** and **Jinja,** implementing both **Content-based** and **Collaborative-based** filtering algorithms.
- Successfully deployed the application on **AWS EC2**, leveraging **Nginx** and **Gunicorn** for optimal performance. Integrated **Amazon RDS** for **MySQL** to manage the database, ensuring scalability and reliability.
- Improved accessibility and professionalism by integrating a **Custom Domain Name**, providing users with a branded and user-friendly experience.
- Established communication between the frontend and backend through a **REST API**, ensuring a clear separation of concerns and facilitating future scalability and collaboration.
- Implemented advanced recommendation algorithms to offer users a personalized music experience based on both content preferences and collaborative interactions, enhancing the overall user engagement.

Password Generator(Desktop App) | https://rb.gy/2jxsuc | [Code](#)
Jan 2023 - Feb 2023

Key Achievements:
- Designed and implemented a graphical user interface for easy password generation and storage.
- Enhanced data security by securely storing email addresses and associated passwords in a JSON file.
- Contributed to improved password management, benefiting user security.

Skills Demonstrated:
- Proficiency in Python programming and **JSON file** handling.
- User interface design and development.
- Convert the **Python file(.py**) into **executable file(.exe).**

SKILLS

AWS: **EC2, Lambda, Api Gateway, RDS, S3 , IAM**   **Languages**: **C++, Python, HTML, CSS**

Python: **Flask, Flask-Bootstrap, WT Form, Jinja, Pandas, Numpy**

Database: **MySQL, PSQL, MongoDB, SQLite**

Tools: **Docker, Jenkins, Ubuntu, Git/GitHub, Canva, Figma**

EDUCATION

GD Goenka University, Gurgaon | **8.82** CGPA
-B.Tech in Computer Science & Enginnering [2020-2024]

G.B.S Public School, Saraswati Nagar, Haryana | **93.2** %
-Intermediate with PCM | [Certificate](#)

ACHIEVEMENTS

- Played **Chess** Twice at state level [2019]. | [Certificate](#)
- **Top 2%** in National Data Mining Exam [2023].| [Certificate](#)