






Danusri E

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EDUCATION

- Coimbatore Institute of Technology** Coimbatore, India
MSc Software Systems (Integrated) CGPA: 8.96/10, Present
- ARC Matric Hr Sec School** Coimbatore, India
HSC Aggregate: 94%

SKILLS

- Languages:** Python, Java, JavaScript, TypeScript
- Frameworks:** React, Angular, VueJS, NodeJS, AdonisJS, Flask
- Databases:** PostgreSQL, MySQL
- Tools:** Docker, Github
- Soft Skills:** Leadership, Event Management, Time Management, Team Player

EXPERIENCE

- NGP Websmart Pvt. Ltd.** Chennai, India
Software Developer Intern July 2024 - Nov 2024
 - Email Marketing Application:** Expanded and improved features for an email business marketing platform, including domain and tag management.
 - New Feature Execution:** Applied modules for exporting data as Excel files and visualizing mail status (delivered, accepted, opened, failed, clicked, unique opens) using graphs.
 - Infrastructure and Database:** Developed email templates for effective communication, managed the Mailgun API to retrieve mail statuses, and integrated PostgreSQL for data storage.
 - Testing and Deployment:** carried out testing, debugging, and local development before deploying to production and development environments.

PROJECTS

- Secure Cloud Storage Service - Python, Flask, MySQL, HTML, CSS:** Applied encryption and authentication for data security. Integrated FTP support for seamless file transfers and designed a user-friendly dashboard for file management, including upload, download, and storage monitoring.
- FinSight- Python, Pandas, PostgreSQL, PowerBi, Machine Learning:** Expanded a financial analytics system integrating real-time data processing, machine learning, and Power BI for actionable insights. Designed KPI tracking, trend analysis, and anomaly detection to enhance financial decision-making.
- Task Management - Vue.js, Vuetify, AdonisJS, PostgreSQL:** An advanced task management application enabling users to create, edit, and track tasks with categories and statuses. Includes an admin dashboard for task assignment and monitoring.
- File Zipper - Python, Huffman Coding:** Applied Huffman coding-based compression in Python to reduce file sizes while maintaining data integrity. Implemented heap-based binary trees for efficient encoding and decoding, optimizing storage and transfer efficiency.

RESEARCH AND PUBLICATIONS

- Enhancing Energy Efficiency in Cloud Data Centers:** Investigates Particle Swarm Optimization (PSO) for reducing energy consumption in cloud data centers, improving workload distribution and sustainability.
- Analysis on Text Compression Algorithms:** Explores lossless text compression techniques, comparing Huffman Coding, LZ77, and the Deflate algorithm for optimizing storage and transmission in cloud computing.

ROLES AND RESPONSIBILITIES

- Secretary, FOSS(Free and Open Source Software) Club of CIT** May 2023 - May 2024
- Editor, Datalytics Club of CIT** May 2022 - May 2023

CERTIFICATIONS

- LeetCode::** SQL 50 Badge
- Sololearn:** Python Core
- NPTEL:** Fundamentals of Design and Analysis of Algorithms (70%)