DANUSRI E

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EDUCATION

MSc Software Systems (Integrated)   **2021-2026**
Coimbatore Institute of Technology   CGPA: 8.90/10

SKILLS

- **Languages**:   Python, C++, Java, JavaScript, TypeScript, SQL, HTML, CSS.

- **Frameworks/Libraries**:   React, Angular, VueJS, NodeJS, AdonisJS, Flask.

- **Databases**:   PostgreSQL, MySQL.

- **Tools**:   Github, Power BI, Docker

- **Soft Skills**:   Leadership, Problem Solving, Time Management.

EXPERIENCE

- **Software Developer Intern**   **July 2024 – Nov 2024**
  NGP Websmart Pvt. Ltd.   Chennai, India
  - Improved key features of an email marketing platform by simplifying domain and tag management which enabled users to stay more organized.
  - Implemented data export capability to Excel with dynamic graphs to visualize email metrics, including delivery, open, and click rates, improving reporting efficiency by 30%.
  - Developed customizable email templates, integrated the Mailgun API for real-time status tracking, and structured PostgreSQL-based backend storage for scalable data management.
  - Resolved bugs during development and participated in the deployment process to ensure smooth transitions to the production environment.

PROJECTS

- **FinSight - Financial Data Analytics & Visualization System**: Developed an end-to-end automated pipeline that integrated real-time financial data extraction using Python and PostgreSQL, applied machine learning models to compute KPIs like ROA, ROE, and volatility, and visualized insights through dynamic Power BI dashboards with DirectQuery for live updates.
  Tech Stack: Python, PostgreSQL, Power BI, Machine Learning.

- **Task Management Web App**: Engineered a task management platform enabling users to organize tasks with features such as task creation, editing, categorization, and real-time status updates. Integrated admin-level controls for assigning tasks to users and managing their progress through a responsive and modular UI.
  Tech Stack: Vue.js, AdonisJS, PostgreSQL.

- **ConnectMail - Local Network Mailing Platform**: Built a secure mailing system for local Wi-Fi networks, featuring inbox, drafts, scheduling, storage statistics, and templates. Enabled company dashboards for user activity and mail tracking. Secured access using JWT authentication and Fernet encryption, integrated across peer systems.
  Tech Stack: React, Flask, JSON, JWT, Fernet Encryption.

RESEARCH AND PUBLICATIONS

- **Enhancing Energy Efficiency in Cloud Data Centers**: Explored the use of Particle Swarm Optimization (PSO) algorithms to improve energy efficiency and balance workloads in cloud data centers, contributing to green computing initiatives.

- **Analysis on Text Compression Algorithms**: Conducted a comparative study on lossless text compression techniques such as Huffman Coding, LZ77, and Deflate to evaluate their effectiveness in storage optimization and transmission efficiency within distributed cloud systems.

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

- Completed LeetCode 50-Day SQL Badge.

- Received NPTEL certification in Fundamentals of Design and Analysis of Algorithms (70%).