

# DANUSRI E

+91 XXXX XXXXX     Gmail     LinkedIn     GitHub     Portfolio

## EDUCATION

<b>MSc Software Systems (Integrated)</b>	<b>2021-2026</b>
Coimbatore Institute of Technology	CGPA: 8.93/10 (up to 7 <sup>th</sup> semester)

## SKILLS

• <b>Languages:</b>	C, Python, Java, SQL, JavaScript, TypeScript, HTML, CSS.
• <b>Frameworks:</b>	React, Angular, VueJS, NodeJS, AdonisJS, Flask.
• <b>Databases:</b>	PostgreSQL, MySQL.
• <b>Tools:</b>	Power BI, Docker, Github.
• <b>Soft Skills:</b>	Leadership, Event Management, Time Management, Team Player.

## EXPERIENCE

<b>Software Developer Intern</b>	<b>July 2024 – Nov 2024</b>
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 assisted in the deployment process to ensure smooth transitions to the production environment.	

## PROJECTS

• <b>FinSight – Financial Analytics Platform:</b> Developed a system that analyzed real-time financial data using machine learning for trend detection and anomaly alerts. Designed interactive dashboards to track KPIs and improve financial decision-making. <b>Tech Stack:</b> Python, Pandas, PostgreSQL, Power BI, Machine Learning
• <b>Task Management Web App:</b> Created a task management platform enabling users to create, edit, and categorize tasks. Implemented admin-level controls for task assignment and real-time status tracking through a responsive UI. <b>Tech Stack:</b> Vue.js, Vuetify, AdonisJS, PostgreSQL
• <b>Secure Cloud Storage System:</b> Built a secure cloud storage system with authentication and encryption to protect user data. Integrated FTP support for seamless file transfers and developed a dashboard for uploading, downloading, and monitoring storage. <b>Tech Stack:</b> Python, Flask, MySQL, HTML, CSS
• <b>File Zipper:</b> Implemented a file compression tool using Huffman coding to reduce file sizes while preserving data integrity. Used heap-based binary trees for efficient encoding and decoding. <b>Tech Stack:</b> Python, Huffman Coding

## RESEARCH AND PUBLICATIONS

• <b>Enhancing Energy Efficiency in Cloud Data Centers:</b> Investigated Particle Swarm Optimization (PSO) techniques to enhance energy efficiency and workload distribution in cloud data centers, improving sustainability.
• <b>Analysis on Text Compression Algorithms:</b> Analyzed lossless text compression algorithms including Huffman Coding, LZ77, and Deflate to optimize storage and transmission in cloud computing environments.

## ROLES AND RESPONSIBILITIES

• <b>Secretary,</b> FOSS (Free and Open Source Software) Club of CIT	May 2023 - May 2024
• <b>Editor,</b> Datalytics Club of CIT	May 2022 - May 2023

## CERTIFICATIONS

• Completed LeetCode 50-Day SQL Badge.
• Earned LeetCode Introduction to Pandas Badge.
• Received NPTEL certification in Fundamentals of Design and Analysis of Algorithms (70%).