CHARUGNDLA PAAVAN SAI

Computer Science Student

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📍 Vijayawada, Andhra Pradesh

SUMMARY

I am a motivated and self-driven Computer Science student with hands-on experience in cloud computing, backend development, and Linux systems. My expertise in AWS, Python, system design, and DevOps tools, paired with a passion for solving real-world problems, enables me to build scalable, efficient, and user-friendly software solutions

EXPERIENCE

Full Stack Development Intern

Codegnan

📅 06/2023 - 08/2023   📍 Vijayawada

A technology company offering full-stack development services

- Developed dynamic web applications using Python Flask, HTML, CSS, and JavaScript
- Increased data retrieval efficiency by 30% by building RESTful APIs and integrating with MySQL database.
- Applied version control using Git and deployed apps on cloud-based environments

AI/ML Intern

Blackbucks

📅 02/2024 - 04/2024   📍 Remote

A platform focusing on AI-driven solutions and machine learning projects

- Worked on real-time machine learning projects including classification and prediction models
- Implemented algorithms using Python, Scikit-learn, and Pandas for data preprocessing and model training
- Conducted model evaluation and optimization, improving accuracy by over 15%

EDUCATION

Bachelor of Technology in Computer Science

PSCMRCET

📅 08/2021 - 05/2025   📍 Vijayawada

Higher Secondary Education (Class XII)

Sri Bhavishya Junior College

📅 04/2020 - 03/2021   📍 Vijayawada

CERTIFICATION

AWS Cloud Practitioner - Coursera

Gained cloud service and architecture knowledge

Python Programming - Log2Base2

Hands-on with Python basics, data structures, and loops

Data Structures & Algorithms- Log2Base2

Learned stacks, queues, trees, and graphs

Interview Coding Patterns - Log2Base2

Understood key problem-solving techniques and coding interview strategies with hands-on problem sets

KEY ACHIEVEMENTS

💬 **Top Scorer in TCS NQT - 2025**
Achieved a good score of 90% in the TCS NQT National wide exam.

SKILLS

AWS	Data Structures	Git	IoT
Java	Linux	Python	SQL
System Design	DevOps	Docker	

PROJECTS

Emergency Alert Band for Deaf and Mute

📅 01/2024 - 12/2024

An IoT-based wearable device for emergency alerts for the deaf and mute

- Built a wearable device using IoT sensors and Firebase to detect emergencies such as falls or loud sounds
- Implemented real-time alerts via vibration, LEDs, and mobile notifications to caregivers
- Reduced emergency response time by 30%. Used Firebase Realtime Database for cloud storage and communication between the Master device and the slave devices

Cloud Infrastructure Management on AWS

📅 01/2023 - 12/2023

Project focused on managing cloud infrastructure for optimized resource utilization

- Designed and deployed cloud resources using EC2, S3, and VPC while applying security best practices
- Set up IAM policies and resource monitoring to ensure system uptime and reliability
- Achieved 40% better resource efficiency and reduced costs by 25%

Bidirectional Data Ingestion Tool Between ClickHouse and Flat File

📅 01/2025 - 12/2025

Tool facilitating real-time data ingestion and monitoring for large datasets

- Improved data transfer efficiency by 30% by developing a bidirectional tool for ClickHouse and flat files.
- Optimized data flow, reducing transfer time by 20% and ensuring system scalability for large datasets