TARUN NANDIGAM

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EXPERIENCE

Summer Training Program – Object-Oriented Programming & DSA Jun 2025 – July 2025
Lovely Professional University Jalandhar, India
- Mastered OOP principles (inheritance, polymorphism, encapsulation, abstraction) and advanced data structures (AVL trees, heaps, hash maps, adjacency lists) through hands-on Java and C++ implementation.
- Engineered water distribution tracking system leveraging graph theory and Dijkstra's shortest-path algorithm for optimal route planning and resource allocation.
- Solved 50+ coding challenges on LeetCode and GeeksforGeeks covering dynamic programming, greedy algorithms, backtracking, and BFS/DFS traversals.

PROJECTS

StoreIt – Cloud-Based File Storage Platform | Flask, Python, JavaScript, AWS S3, CSS July 2025 – Aug 2025
- Architected Cloud-Based file management system with Flask backend and AWS S3 storage supporting 100MB uploads with IAM access control.
- Designed drag-and-drop interface using JavaScript and HTML5 File API with asynchronous Ajax for live status updates.
- Deployed production-grade solution on WSGI server with S3 bucket versioning, encryption policies, and cross platform compatibility for seamless user experience.

2- Tier Flask Web Application | Flask, Python, HTML/CSS, Docker, MySQL June 2025 – July 2025
- Built a scalable 2-tier web application using Flask backend and responsive HTML/CSS frontend.
- Containerized application with Docker and automated deployment using Makefile scripts.
- Implemented RESTful API endpoints for CRUD operations with MySQL database integration.
- Deployed on AWS EC2 with Nginx reverse proxy, achieving 99.5% uptime and handling 300+ concurrent requests.

Cloud-Based E-commerce Platform | AWS (S3, RDS), Docker, Html, Css, JavaScript, Python Mar 2024 - Apirl 2024
- Developed a responsive web application using Flask (Python) as the backend with dynamic frontend built using HTML, CSS, and JavaScript.
- Containerized the application using Docker for consistent deployment across environments and simplified scalability.
- Deployed the app on cloud infrastructure, leveraging container orchestration and storage services for high availability and performance.

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, HTML5, CSS3
Frameworks/Databases: Next.js, Flask, Mysql , MongoDb
DevOps & Cloud: AWS (S3, EC2, RDS), Docker, Kubernetes, Jenkins, CI/CD Pipelines, Git, GitHub

ACHIEVEMENTS & LEADERSHIP

- Smart India Hackathon 2025 Grand Finalist: Selected for national grand finale among 1,500+ participants, demonstrating innovation and technical problem-solving
- GeeksforGeeks Hackathon – 7th Place: Secured top 6 position showcasing Development and Problem Solving.

EDUCATION

Lovely Professional University 2023 - 2027
Bachelor of Technology in Computer Science – GPA: 6.6/10.0 Jalandhar, Punjab

Sri Chaitanya College 2022-2023
12 th – Percentage: 92.9% Palasa, Andhra Pradesh

Sri Chaitanya School 2020-2021
10 th – Percentage: 99.5% Palasa, Andhra Pradesh