

NEHA MARY THOMAS

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PROFESSIONAL SUMMARY

B.Tech Computer Science graduate (8.14 CGPA) with hands-on DevOps and cloud infrastructure experience. **Winner of KSUM IDEAFEST 2023** — securing a ₹60,000 grant for an assistive healthcare solution among 500+ startups. Currently building expertise in Linux System Administration, AWS, and CI/CD pipelines through a 6-month Cloud and DevOps internship.

WORK HISTORY

Cloud & DevOps Intern | IPSR Solutions Ltd, Kottayam

February 2026 – Present

- Provisioned and managed cloud infrastructure on **AWS (EC2, S3, IAM, Security Groups)** using both Console and CLI.
- Automated infrastructure provisioning with **Terraform** IaC scripts; managed configuration across Linux environments using **Ansible Playbooks**.
- Containerized Python/Django, Java, and MERN stack apps using **Docker + Nginx**; architected 3-container stack with Docker Compose (reverse proxy, MariaDB, environment variables).
- Built and maintained **CI/CD pipelines with Jenkins** for automated build and deployment; administered RHEL environments with RHCSA-level proficiency.
- Managed Git branching workflows including fast-forward merges, parallel development, and conflict resolution.

PROJECTS

Medical Image Segmentation & Encryption — *Deep Learning*

- Built an end-to-end secure medical imaging pipeline in Python achieving **97% Dice Coefficient** accuracy, reducing radiologist pixel-labeling time by 70%.
- Engineered dual-layer SHA-256 encryption ensuring 100% HIPAA-compliant DICOM transmission; optimized inference to **<200ms per image**.

College Mess Management System — *Full-Stack, PHP/MySQL*

- Digitized cafeteria operations for 500+ users; relational DB handled 1,500+ monthly transactions with 99.9% integrity.
- Automated monthly PDF reporting, cutting admin workload by 40%; feedback module drove 15% improvement in satisfaction scores.

Next Word Prediction Text Editor — *NLP, Python + JavaScript*

- Achieved **85% Top-3 prediction accuracy** using N-gram and LSTM-based NLP with <50ms real-time latency; scored 100% on Google Lighthouse mobile.

SKILLS

Cloud & DevOps: AWS (EC2, S3, IAM), Terraform, Ansible, Docker, Nginx, Jenkins (CI/CD), Linux (RHEL/Ubuntu), Bash Scripting, Systemd, TCP/IP Networking

Languages: Python, Java, JavaScript, C, HTML5, CSS3, PHP, SQL

AI/ML: Deep Learning, U-Net Image Segmentation, NLP (NLTK, N-gram, LSTM), OpenCV

Tools & Platforms: Git/GitHub, VS Code, Vim, MySQL, MERN Stack, Flask, Django

NOTABLE ACHIEVEMENTS

- **Final Year Department Topper** — Awarded the Rakesh U N Memorial Ever Rolling Trophy, B.Tech CSE (March 2025)
- **KSUM IDEAFEST 2023 Winner (1st Place)** — Ranked #1 of 500+ startups; ₹60,000 grant for assistive travel tech for the visually impaired

EDUCATION

B.Tech in Computer Science and Engineering Lourdes Matha College of Science and Technology, Kuttichal, Trivandrum	<i>Nov 2021 – Apr 2025</i> CGPA: 8.14/10.0
Higher Secondary Education (Biology Science) St. Joseph’s GHSS, Changanacherry, Kottayam	<i>Jun 2019 – Mar 2021</i> Percentage: 97.25%

CERTIFICATIONS

AWS Training Certificate – IPSR Solutions Ltd	Jun 2026
Developing a Google SRE Culture – Coursera	Feb 2026
Google Cloud Fundamentals: Core Infrastructure – Coursera	Feb 2026
AI Foundation - Infosys Springboard	Oct 2023
Data Management and Machine Learning – Professional Training	Jun 2023
Artificial Intelligence and Computer Vision - Internship(ID:AIC230108)	May 2023

LEADERSHIP AND ACTIVITIES

Member, Indian Society for Technical Education (ISTE) Membership ID: 001140	Nov 2021 – Apr 2025
Volunteer, National Service Scheme (NSS) St. Joseph’s GHSS, Changanacherry – Community service initiatives	Jun 2019 – Mar 2021