# Thokala Kumar Reddy

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## Career Objective

A motivated and enthusiastic Computer Science graduate seeking an entry-level role as a Software or DevOps Engineer. Eager to apply my foundational knowledge in **AWS** cloud services, automation tools like **Docker** and **Kubernetes**, and **backend development** to contribute to building **scalable** and **efficient systems** while continuously learning in a **dynamic tech environment**.

## Education

**Bachelor of Engineering in Computer Science And Engineering**
Sri Ranganathar institute Of Engineering And Technology [Coimbatore, Tamilnadu]
Year of Passing: 2026 | CGPA: 8.4 / 10

## Skills

**Languages:** Python, Java

**Containerization:** Docker, Kubernetes

**Cloud Computing:** Amazon Web Services (IAM, EC2, S3,EKS,VPC, Elastic Beanstalk,AWS CDK,Lambda)

**Scripting:** Shell Scripting

**Operating System:** Linux(Ubuntu, CentOS)

**Data Structures & Algorithms (DSA):** Arrays, Linked Lists, Stacks, Queues, Trees, Sorting Algorithms

## Projects

**Cloud-Native Web Application Deployment with Docker, Kubernetes & AWS EC2**

– Built and deployed a **containerized web application** using **Docker**, orchestrated on a **Kubernetes cluster** provisioned with **AWS EC2**, ensuring a **scalable**, **resilient**, and **production-ready** environment.
– Configured and managed **Kubernetes Deployments**, **Services**, **ConfigMaps**, and **ReplicaSets** to enable **load balancing**, **high availability**, and seamless **rolling updates** with **rollback** support.
– Monitored application performance and infrastructure health using **Amazon CloudWatch**, `kubectl logs`, and `kubectl top`, enabling **real-time observability** and **proactive debugging**.
– Delivered a **self-healing**, **zero-downtime deployment** architecture with **automatic failover** and consistent application behavior across environments.

## Problem Solving

**DSA Coding Practice**

• Solved 60+ problems on **LeetCode** covering arrays, linked lists, stacks, queues, trees, and dynamic programming. </> LeetCode

## Courses Completed

**DevOps Tools Docker, Kubernetes, Shell Script, Linux,AWS Cloud**
Udemy

**Mastering Data Structures & Algorithms using Python**
Udemy