

# RANJITH KUMAR

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## CAREER OBJECTIVE

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Meticulous professional with extensive expertise in Linux, AWS, and DevOps technologies. Proficient in overseeing cloud infrastructure and deploying automation to optimize application stability, security, reliability, and scalability. Passionate about lifelong learning and integrating emerging tools to foster innovation and propel business growth

## KEY SKILLS

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**AWS Services:** EC2 | VPC | S3 | IAM | Organizations | Lambda | Elastic Beanstalk | CloudFormation | SNS | SQS | CloudWatch | CloudTrail | Route 53 | RDS | DynamoDB and other AWS services

**DevOps Tools:** Git | Jenkins | Docker | Kubernetes | Terraform | Ansible | EFK | **Scripting:** Linux Shell scripting | YAML | HCL

**Linux:** File Management | Process Management | Shell Scripting | Text Processing | Scheduling Tasks | Networking | **Programming languages:** Python

## PROJECTS

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*AWS Project: Building a Secure Multi-Tier Web Application on AWS*

- Designed and implemented a robust **multi-tier web application architecture on AWS**. Enforced the deployment of **EC2 instances** in segregated public and private subnets to facilitate web, application, and database operations
- Applied granular security group rules to **manage inbound traffic** and enable communication between different tiers
- Administered configuration of an **RDS MySQL** instance to optimize database scalability
- Utilized Route 53 hosted zone for efficient traffic routing to the public-facing web tier.

*AWS Project: Designed and implemented a robust Virtual Private Cloud (VPC) architecture for a production environment to ensure optimal security and performance*

- The AWS infrastructure was meticulously planned, including VPC design, public and private subnet configuration, and ensuring **high availability and fault tolerance**
- Emphasis was placed on **security and compliance**, ensuring robust protection and adherence to industry standards

*AWS Project: Automated Snapshot Deletion Lambda for Cost Optimization*

- Developed a serverless **AWS Lambda function** for automating the deletion of unused EBS snapshots
- Contributed to the **development and implementation** of cost optimization strategies within AWS environments

*DevOps Project: Automating Deployment*

- Implemented DevOps pipeline for a product-based company (Abode Software).
- Successfully spearheaded the implementation of configuration management, **Git** workflow, and CI/CD pipeline utilizing Jenkins. Employed Docker for efficient deployment via containerization.
- We have established continuous testing with environment-specific deployment based on the branch (master: deploy to production, develop: test only). Improved development efficiency and reduced deployment time

*DevOps Project: Automating Deployment with Kubernetes*

- Devised and formula scalable **DevOps pipeline, automating Git workflows, CI/CD with Jenkins**, and infrastructure provisioning on AWS using Terraform, while leveraging Kubernetes for high-availability container orchestration
- Managed worker node configurations using **Ansible, handling installations of Jenkins, Java, Docker, and Kubernetes** to streamline deployment processes and maintain version control in a monolithic environment

## CERTIFICATIONS

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- Achieved **AWS Solutions Architect Associate** Certification from Intellipaat, demonstrating expertise in cloud architecture and solutions design | [Link](#)
- Attained **Cloud and DevOps Certification from Intellipaat**, showcasing expertise in cutting-edge technologies and methodologies | [Link](#)
- Obtained **Linux Administration Certification** from Intellipaat, demonstrating proficiency in managing Linux systems | [Link](#)

## WORK EXPERIENCE

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**Cognizant technology solutions** | Coimbatore May '22 - Aug '23

*Process Executive*

- Conduct thorough evaluations of **healthcare claims to verify precision** and adherence to organizational and client protocols
- Executes **claim processing with precision**, in strict compliance with established protocols and standards

## EDUCATION

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**Dr. G. R. Damodaran College of Science** | Coimbatore Jun '18 - Apr '21

*Bachelor of Computer Applications - 7.23 CGPA*