

Rammohan Rao

Kakinada, Andhra Pradesh | mohanrao1627@gmail.com | +91 7661877512

linkedin.com/in/rammohanrao

EDUCATION

Bachelor of Technology - Computer Science
Pragati Engineering College, Kakinada (India)

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SKILLS

Operating Systems: Linux | Windows

Cloud Services: AWS: IAM | EC2 | Elastic Beanstalk | S3 | Lambda | VPC | RDS | CloudFront | ElastiCache | DMS | Route53 | AWS Transfer Family | Storage Gateway | DataSync | System Manager | Secret Manager | CloudWatch | Directory Service | FSx | EFS | SNS | AWS Organizations

Scripting Languages : Python, PHP

Version Controlling : Git

Database : SQL, Database design, Amazon DynamoDB,

Networking: TCP/IP, DNS, HTTP/HTTPS, FTP

Tools: MySQL | PgAdmin | Putty | MobaXterm | Filezilla

PROJECTS

Amazon Web Service

- Designed and implemented a scalable and resilient AWS infrastructure by deploying **EC2 instances** managed via **Auto Scaling groups** and fronted by an ELB. Configured the **ELB** to distribute incoming traffic across multiple instances for **high availability** and **optimized performance**. Leveraged Auto Scaling to dynamically adjust instance count based on demand. Managed deployments across multiple Availability Zones to enhance fault tolerance and system resilience.
- Successfully delivered zero downtime by implementing the **Blue-Green Deployment model**, ensuring seamless transitions and uninterrupted service during application update.
- Configured and deployed CloudWatch Agent on **Linux EC2** instances to push application and system logs to **AWS CloudWatch Logs**, enabling real-time monitoring and centralized log management
- **Automated** the start and stop of **EC2 instances** at specific times using **AWS Lambda functions**, improving cost-efficiency.

Serverless Application Development

- Designed and deployed a **dynamic website** using a fully serverless architecture on **AWS Cloud**.
- Utilized **Amazon S3** for hosting the frontend, achieving high availability and scalability.
- Implemented backend logic using **AWS Lambda** and **API Gateway** to handle dynamic responses.
- Managed data efficiently with **Amazon DynamoDB**, enabling real-time interactions and a seamless user experience.

- Successfully implemented and configured Active Directory using AWS Directory Services
- Successfully migrated a database between different **DB engines** using **AWS Database Migration Service**, ensuring seamless data transfer, minimal downtime, and maintained data integrity throughout the process
- Configured and managed VPC with Internet Gateway and NAT Gateway, ensuring secure and scalable network architecture.
- Established VPC peering connections to enable seamless and efficient communication between multiple VPCs.