

KRISHNAKUMAR

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PROFESSIONAL SUMMARY

{{TOTAL_YEAR_OF_EXPERIENCE}} M.Tech Cloud Computing graduate skilled in AWS services (EC2, S3, RDS, IAM, VPC, Route 53, CloudWatch) and CCNA-aligned networking. Designs secure, scalable VPC architectures, automates via CloudFormation, monitors with CloudWatch, and leverages Java/Linux to optimize performance, security, reliability, and cloud costs.

TECHNICAL SKILLS

Programming Languages: Java

Cloud Platforms Services: AWS, EC2, S3, RDS, IAM, VPC, Route 53, CloudWatch, SNS

Devops Cid: GitHub, Linux

Tools And Databases: Cisco Packet Tracer, Wireshark, PuTTY, Cisco IOS CLI, NumPy, Pandas, Jupyter, Google Colab, Matplotlib, SHAP

PROJECTS

Creation of 3-Tier Application Using AWS |

Deployed a 3-tier (Web/App/DB) architecture on AWS using EC2, RDS (Multi-AZ), and S3 within a secure VPC; implemented Application Load Balancer and Auto Scaling; automated provisioning with CloudFormation and monitored via CloudWatch; integrated Lambda for automation.

- Improved availability and elasticity by implementing **Auto Scaling and ALB**, raising uptime by and supporting peak loads of .
- Enhanced resilience and efficiency with **RDS Multi-AZ**, S3 backups, and **CloudFormation**, cutting manual setup by and reducing recovery time by .

Smart farming leverages technology to empower farmers. |

Built an IoT-driven smart agriculture pipeline using Python (serial, smbus), pandas, and numpy to ingest, clean, and normalize sensor data (soil moisture, temperature, humidity, pH, light), and derived ET, VPD, and soil moisture deficit to inform decisions.

- Implemented **sensor data collection and preprocessing** to process readings/hour, enabling alerts that cut manual checks by .
- Delivered **actionable agronomic features (ET, VPD)** that increased water-use efficiency by and improved crop productivity by .

EDUCATION

M.Tech - Cloud Computing | May 2025

SRM University

B.E. - Computer Science and Engineering | Apr 2023

Panimalar Engineering College

CERTIFICATIONS

- AWS and CCNA