

Amaresh Kumar

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Professional Summary:

Aspiring AWS Cloud & DevOps Engineer with experience containerizing and deploying full-stack applications on AWS EC2 using Docker, Docker Compose, GitHub Actions, Linux, and Shell scripting. Skilled in building CI/CD pipelines, automating deployments, and managing cloud-hosted applications. Brings troubleshooting, analytical, and root cause analysis skills developed through professional experience at Amazon.

Education

B.E in Computer Science - Sambhram Institute of Technology 2021-2025	74.8%
11-12 - Bihar Board 2019-2021	65.0%
10th - Central Board of Secondary Education 2019	74.6%

Technical Skills

- Cloud:** AWS (EC2, IAM, VPC Basics)
- CI/CD:** GitHub Actions
- Containers:** Docker, Docker Compose
- Web Servers:** Nginx
- Operating Systems:** Linux (Ubuntu), Windows
- Version Control:** Git, GitHub
- Scripting:** Bash (Shell Scripting), Python, YAML
- Networking:** SSH, DNS, HTTP, HTTPS
- Security:** SSH Key Authentication, GitHub Secrets, Let's Encrypt SSL
- Database:** MySQL, PostgreSQL, MongoDB

Experience

Quality Specialist – Amazon

September 2025 - Present

- Investigated delivery and return defects across multiple regions by analyzing operational data and identifying root causes to ensure accurate case resolution.
- Evaluated failure patterns across large datasets using multiple internal tools to support quality objectives and operational decision-making.
- Applied structured problem-solving to ambiguous, complex cases — determining appropriate resolutions based on documented processes and data interpretation.
- Monitored performance across Excellent, Acceptable, and Unacceptable quality categories.
- Maintained high accuracy and productivity simultaneously while consistently meeting quality benchmarks across assigned workloads.
- Collaborated with internal stakeholders to ensure cases were resolved in compliance with established operational standards.

Projects

Automated CI/CD Pipeline for Website Deployment (Brew & Chill) [GitHub]

June 2026

Tools: GitHub Actions, AWS EC2, Linux, Nginx, Shell Scripting, SSH, Git, Let's Encrypt SSL, DNS

- Built an automated CI/CD pipeline using GitHub Actions to deploy a website to an AWS EC2 instance on every push to the main branch.
- Configured secure SSH key-based authentication and GitHub Secrets for automated deployments.
- Developed shell scripts (deploy.sh and healthcheck.sh) to automate deployment, restart Nginx, and verify application health.
- Configured Nginx with a custom subdomain (brew.amaresh.info) and secured the application using Let's Encrypt SSL.
- Eliminated manual deployments entirely by automating end-to-end deployment and post-deployment health validation on every git push.

Containerized Deployment & Infrastructure Debugging (Antigravity Wholesale) [GitHub] [Live Demo]

July 2026

Tools: Docker, Docker Compose, GitHub Actions, AWS EC2, Linux, Nginx, Shell Scripting, SSH, MongoDB, Bash

- Containerized a full-stack wholesale application (React, FastAPI, MongoDB) using Docker and Docker Compose for multi-container deployment.
- Deployed the application on AWS EC2 with a live production domain (duskft.shop) using Docker networking, persistent volumes, and Linux administration.
- Built a GitHub Actions CI/CD pipeline to automatically deploy every push to the main branch with deployment health checks.
- Automated EC2 provisioning using Bash scripts to install Docker, Docker Compose, configure swap memory, and prepare deployment environments.
- Resolved production deployment issues involving Docker builds, memory, disk space, and environment configuration to improve deployment reliability.

Achievements and Co-curricular Activities

- NSS Coordinator in College
- Building projects through the #90DaysOfDevOps learning challenge. [GitHub]
- Hands-on experience deploying applications on AWS EC2 using CI/CD automation.

Certifications

- AWS Certified AI Practitioner (In progress)