

ASHWANI KUMAR

Cloud & Backend Engineer

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Professional Summary

Cloud & Backend Engineer with 3+ years of hands-on experience deploying and managing applications on AWS. Skilled in backend services, cloud infrastructure, containerization with Docker, and CI/CD pipelines. Proven track record in building scalable REST APIs, automating deployments, and optimizing cloud costs. Background in Electronics & Communication Engineering. Actively seeking Cloud Engineer, Backend Engineer, or Software Engineer (SDE) roles.

Technical Skills

Cloud Technologies: AWS (EC2, S3, IAM, VPC, CloudWatch, Route53, Lambda)

Programming Languages: Python, JavaScript, Node.js, Bash

Backend & APIs: REST APIs, Express.js, Flask, Microservices

DevOps & CI/CD: Docker, Jenkins, GitHub Actions, Git, Linux

Infrastructure as Code: Terraform, Ansible, CloudFormation (Basic)

Databases: MySQL, PostgreSQL, MongoDB (Basic)

Tools: Nginx, Apache, JIRA, GitHub

Professional Experience

Cloud & Backend Engineer (Independent Projects)

April 2023 – Present

India

- Deployed and managed 5+ backend applications on AWS using EC2, S3, and IAM, achieving 99.9% uptime with optimized resource allocation and cost efficiency
- Built REST APIs using Python and Node.js serving 1000+ daily requests for internal and client-facing applications
- Containerized applications using Docker, reducing deployment time by 60% and ensuring environment consistency across development and production
- Implemented CI/CD pipelines using Jenkins and GitHub Actions, automating deployment processes with automated testing and rollback capabilities
- Configured AWS CloudWatch monitoring with custom metrics, alarms, and dashboards for real-time performance tracking and proactive issue detection
- Automated infrastructure provisioning and configuration tasks using Bash scripts, reducing manual operational work by 75%

Full Stack Web Developer (Remote)

December 2022 – March 2023

Make My Website Pty Ltd, Australia

- Developed and deployed 3+ production web applications on AWS infrastructure, implementing responsive design and scalable backend architecture
- Implemented Docker-based deployment workflows with Docker Compose for multi-container applications, ensuring consistent environments across development and production
- Configured CI/CD pipelines for automated testing, building, and deployment processes, reducing deployment time from hours to minutes
- Optimized application performance through code refactoring, database query optimization, and caching strategies, improving page load times by 40%

Graduate Engineering Trainee

December 2021 – September 2022

ASTI Electronics India Pvt Ltd, Gurugram

- Assisted in Linux server administration and infrastructure management, maintaining system reliability and performing routine maintenance and updates
- Supported cloud infrastructure projects and developed automation scripts using Python and Bash, reducing manual operational tasks by 50%

- Participated in troubleshooting infrastructure issues across development and production environments, gaining hands-on experience with distributed systems
- Documented technical processes, system configurations, and troubleshooting procedures for knowledge sharing and team reference

Projects

Cloud-Based Application Deployment Platform

- Designed and deployed scalable backend application on AWS using EC2 instances with Auto Scaling groups and Docker containerization
- Built automated CI/CD pipeline using Jenkins for continuous integration, automated testing, and zero-downtime deployments with rollback capabilities
- Configured IAM roles and policies for secure access control, VPC networking with public/private subnets, and security groups for network isolation
- Implemented comprehensive monitoring using AWS CloudWatch with custom metrics, alarms, and dashboards for real-time application performance tracking

DevOps Automation Setup

- Created multi-container Dockerized microservices architecture using Docker Compose for local development and testing environments
- Automated server provisioning and configuration management using Ansible playbooks, reducing setup time from days to hours and eliminating configuration drift
- Implemented centralized logging and monitoring solution using CloudWatch and Prometheus for deployed services, enabling quick troubleshooting and performance analysis
- Developed Jenkins pipeline for automated build, test, and deployment workflow with integration to GitHub repositories

REST API Development for E-commerce Platform

- Built RESTful API using Node.js and Express.js for product management, order processing, and user authentication, handling 500+ concurrent requests
- Integrated MySQL database with optimized queries, proper indexing, and connection pooling for improved performance
- Implemented JWT-based authentication and role-based authorization for secure API access and user management
- Deployed on AWS EC2 with Nginx reverse proxy, SSL/TLS encryption, and configured auto-scaling for handling traffic spikes

Training & Virtual Experience

Deloitte – Forage

- Completed hands-on simulations involving data classification, analytics workflows, and technology consulting practices
- Gained practical exposure to structured problem-solving methodologies and data handling best practices in enterprise environments

Education

Bachelor of Technology in Electronics & Communication Engineering

2017 – 2021

Guru Jambheshwar University of Science & Technology, Hisar

Certifications & Learning

AWS Cloud Fundamentals • DevOps Foundations • Learning Ansible • Introduction to Generative AI