Aditya Raj Singh

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PROFILE SUMMARY

MCA graduate with hands-on cloud infrastructure and DevOps training, practical Terraform deployments, and 18+ months of SLA-driven support operations experience. Skilled in troubleshooting AWS and Linux environments, CI/CD pipelines, ITSM workflows, and incident triage. Proficient in Python, Shell scripting, Docker, and core AWS services (EC2, VPC, IAM, RDS, CloudWatch). Published IEEE researcher (NETCRYPT 2025, JNU Delhi). Seeking entry-level roles in Application Support, Cloud Support, Infrastructure Operations, or DevOps (Entry Level).

SKILLS

- **Cloud:** AWS – EC2, VPC, IAM, S3, RDS, EBS, Route53, CloudTrail, Security Groups, Auto Scaling
- **DevOps & Infrastructure:** Linux (Ubuntu/CentOS), Docker, Terraform, Jenkins, GitHub Actions, Git, Bash/Shell Scripting, Networking (DNS, TCP/IP, HTTP/S, SSH)
- **Monitoring & Observability:** CloudWatch, Log Analysis, Alerting, Health Checks, Incident Triage, Troubleshooting
- **Programming & Databases:** Python, MySQL, REST API, Query Writing, Data Validation, JSON
- **Support & Operations:** Zoho Desk, ITSM, Incident Management, SLA Adherence, Ticket Triage, Escalation Workflows, Root Cause Analysis, SOP Documentation, Windows OS, Active Directory (Familiar)

EDUCATION

- **Master of Computer Application** – Central University of Himachal Pradesh   *Aug 2023 – Aug 2025*
- **Bachelor of Computer Application** – Lovely Professional University   *2021*

EXPERIENCE

- **DevOps Engineering Internship**   *Aug 2025 – Nov 2025*
  GeeksforGeeks — Cloud & DevOps Training Program
  – Provisioned AWS resources (EC2, IAM, VPC, Security Groups) across lab environments using Terraform; practised infrastructure teardown and recreation to reinforce IaC concepts.
  – Monitored CI/CD pipelines via Jenkins and GitHub Actions; troubleshot build failures by analysing deployment logs and tracing root causes.
  – Conducted system health checks and log analysis on Linux instances; identified and documented recurring configuration issues during hands-on labs.

- **L1 Support Analyst**   *Nov 2021 – Apr 2023*
  Startek — Operations Support Process
  – Managed 80+ tickets/day via Zoho Desk (ITSM) in a shift-based, SLA-driven environment; maintained >95% resolution rate through structured escalation and SOP adherence.
  – Troubleshot and triaged incidents by priority, performed root cause analysis, and escalated unresolved L1 cases to backend teams with full context documentation.
  – Maintained knowledge base for 20+ recurring issue patterns; authored SOPs adopted by the team to reduce average handling time.

PROJECTS

- **Secure 2-Tier AWS Architecture with Terraform**   GitHub
  Terraform (Modular) | Flask | AWS VPC, EC2, RDS, Secrets Manager, Security Groups | 2026
  – Built modular Terraform IaC across 5 modules (vpc, ec2, rds, security groups, secrets) to provision a custom VPC with public and private subnets, Internet Gateway, and Multi-AZ compliant RDS MySQL; DB access restricted to web tier via layered security groups.

- Integrated AWS Secrets Manager for automated password generation and secure credential storage; deployed Flask app via EC2 user data with systemd service management and live health, db-info, post endpoints for infrastructure validation.
- Troubleshot route table association failures, RDS provisioning delays, and EC2 startup errors across repeated terraform apply and terraform destroy cycles.

- **GitHub Profile Summarizer**   GitHub
  React 18 | Vite | Tailwind CSS | Recharts | GitHub REST API | Docker | Jenkins | 2025
  - Built full-stack web app to visualise any GitHub profile – displaying top repos by stars, language distribution via Recharts pie chart, and recent commit activity aggregated from public GitHub events API.
  - Containerised with Docker and integrated a Jenkins CI/CD pipeline to auto-build and push versioned Docker images to DockerHub; implemented GitHub token auth to raise API rate limit from 60 to 5000 req/hr.
  - Architected with React 18 Hooks and Axios; designed for optional token-based authentication and tested across 10+ profiles with zero unhandled API errors.

- **EC2 Dockerized Node.js App with RDS MySQL**   GitHub
  Node.js | Docker | AWS EC2 | Amazon RDS (MySQL) | IAM | SSM Session Manager | 2025
  - Deployed containerised Node.js backend on EC2 integrated with Amazon RDS MySQL; secured instance access using IAM roles and AWS Session Manager, eliminating SSH keys and port 22 exposure entirely.
  - Troubleshot DB connection failures and verified end-to-end connectivity through both application-level HTTP responses and direct MySQL CLI validation against the RDS endpoint.
  - Recorded complete architecture, security practices, and deployment steps; identified planned improvements including SSM Parameter Store, Docker Compose, and Nginx reverse proxy.

CERTIFICATIONS

- **Ultimate AWS Certified Solutions Architect Associate (SAA-C03)** | Udemy   *2026*
- **Decoding DevOps – From Basics to Advanced Projects with AI** | Udemy   *2026*
- **Generative AI Foundation** | UpGrad   *2025*
- **Fundamentals of Docker and Kubernetes** | Scaler   *2024*
- **Enhancing Soft Skills and Personality** | Indian Institute of Technology, Kanpur   *2024*

ACHIEVEMENTS

- Published *Permissioned Smart Contract Based e-Voting System for University* in **IEEE Xplore (Scopus Indexed)**; presented at NETCRYPT 2025, JNU New Delhi.
  DOI: 10.1109/NETCRYPT65877.2025.11102528

ADDITIONAL INFORMATION

- **Languages:** Hindi (Native), English (Proficient)