

# Ayush Choudhary

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## SUMMARY

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AWS Certified Cloud Practitioner skilled in building scalable, cloud-native systems using Docker, Kubernetes, Terraform, and CI/CD automation. Strong focus on DevOps and cloud infrastructure, with additional experience in building modern frontend applications using React and Vite for a complete end-to-end development perspective.

## SKILLS

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AWS, Docker, Kubernetes, Terraform, Linux, Python, GitHub/GitLab, Jenkins, PostgreSQL, MongoDB, FastAPI, React, Tailwind CSS

## PROJECTS

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### Biomarine AI — Cloud-Native AI Research Platform

- Built a production-grade AI platform with containerized microservices deployed on AWS EKS using Terraform.
- Implemented GitOps with GitHub Actions + ArgoCD for automated rollouts, rollback safety, and self-healing deployments.
- Designed secure cloud architecture with VPC networking, IAM/OIDC roles, probes, autoscaling, and DynamoDB.
- Reduced deployment cycle time by **40%** through automated manifest updates and optimized container builds.

### CareerVault — Serverless Job Tracking System

- Built a cloud-native job tracking system using Cognito, DynamoDB, ALB, ASG, EC2, CloudWatch, and S3.
- Designed production-ready infrastructure with Terraform (VPC, subnets, ALB, autoscaling, IAM roles, DynamoDB tables).
- Developed an AI-powered resume analysis engine using Google Gemini integrated with FastAPI.

### CODE VEDA — Interactive Vedic Manuscript UI

Built an animated manuscript-style UI with 3D transitions and responsive layouts; optimized via lazy loading and code-splitting.

### GreedyMap — Tech Stack Visualization Platform

Built interactive tech visualizations using D3.js and React Flow; achieved a 95+ Lighthouse score on Vercel.

## EDUCATION

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2024 – 2028 **Bachelor's in Computer Science and Engineering**, Dr. Akhilesh Das Gupta Institute of Professional Studies, New Delhi  
Top 1% in Computer Science Department (9.4 CGPA)

## ACHIEVEMENTS

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- **AWS Certified Cloud Practitioner (CLF-C02)** — [Credential Verification](#)

– Lead, Web Development Department — Geek Room Society (2024–Present)