

GAGAN BISWAS

Cloud & DevOps Engineer

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github.com/sky7-devops | www.papersless.xyz

Professional Summary

Cloud & DevOps Engineer pursuing B.Tech in Computer Science & Engineering (AI & ML) with hands-on experience designing, automating, and deploying cloud infrastructure using AWS, Terraform, Docker, Linux, and GitHub Actions. Experienced in building CI/CD pipelines, Infrastructure as Code (IaC), containerized applications, AWS networking, IAM security, and serverless cloud deployments. Built production-style projects implementing automated deployments, secure authentication using OIDC, cloud architecture best practices, and scalable infrastructure solutions. Seeking an entry-level DevOps Engineer, Cloud Engineer, or SRE role.

Technical Skills

Cloud Platforms: Amazon Web Services (AWS EC2, VPC, IAM, S3, CloudFront, Route 53, ACM, CloudWatch)

DevOps Tools: Git, GitHub, GitHub Actions, CI/CD, AWS CLI, Linux Administration, Automation

Infrastructure as Code: Terraform, AWS CloudFormation (Basics)

Containers & Orchestration: Docker, Docker Compose, Kubernetes, Amazon EKS

Programming & Scripting: Python, Bash, YAML

Operating Systems: Linux (Ubuntu, RHEL), SSH, System Administration

Monitoring & Observability: CloudWatch, Prometheus, Grafana, Loki

Networking: VPC, DNS, HTTP/HTTPS, TLS/SSL, Load Balancing, Security Groups

Cloud Security: IAM, Least Privilege Access, OIDC Authentication, Security Best Practices

Development Practices: REST APIs, Agile, Version Control, Infrastructure Automation

Projects

AWS Static Portfolio Website – CI/CD Pipeline & Global CDN Delivery [GitHub](#) — [Live Demo](#)

Technologies: AWS S3, CloudFront, Route 53, ACM, IAM, GitHub Actions, OIDC, HTML, CSS, JavaScript

- Designed and deployed a serverless static website architecture using **Amazon S3, CloudFront, Route 53, and ACM with HTTPS-enabled custom domain hosting**.
- Built an **automated CI/CD pipeline using GitHub Actions** to validate, deploy, and synchronize website updates to AWS after every Git push.
- Implemented secure **OIDC-based authentication** between **GitHub Actions** and **AWS IAM**, eliminating long-lived credentials and following least-privilege security principles.
- Configured **CloudFront caching, compression, cache invalidation, DNS routing, and SSL/TLS** management to improve website performance and availability.
- Applied **Infrastructure as Code principles, AWS CLI automation, and Git workflows** to create a secure and repeatable deployment process.

Production-Ready AWS Infrastructure with Terraform, Docker & CI/CD [GitHub](#)

Technologies: AWS EC2, VPC, IAM, Security Groups, Terraform, Docker, GitHub Actions, Ubuntu Linux, Python Flask

- Provisioned AWS cloud infrastructure using **Terraform** including **VPC, public subnet, Internet Gateway, route tables, security groups, and EC2 instances**.
- Developed and containerized a Python Flask REST API using **Docker** and deployed the application on an AWS EC2 Linux environment.
- Created **CI/CD automation using GitHub Actions** to build Docker images and publish container images to **Docker Hub**.
- Performed Linux server administration including **SSH configuration, package management, Docker installation, firewall configuration, and application deployment**.
- Applied cloud security practices using **IAM roles, network isolation, security groups, and Infrastructure as Code** methodologies.

Education

Bachelor of Technology – Computer Science & Engineering (AI & ML)

Brainware University, Kolkata

2022 – 2026

CGPA: 9.38

Senior Secondary (Class XII)

Army Public School, Barrackpore

2022

Percentage: 85.33%

Secondary (Class X)

Army Public School, Barrackpore

2020

Percentage: 86.88%

Certifications

AWS Certified Solutions Architect – Associate

Expected Oct 2026

HashiCorp Certified: Terraform Associate

Expected Nov 2026

Certified Kubernetes Administrator (CKA)

Expected Dec 2026

Additional Information

- Maintaining active GitHub repositories documenting DevOps projects, infrastructure implementations, and automation workflows.
- Built and deployed a live portfolio website demonstrating AWS hosting, **CI/CD automation, HTTPS configuration, and cloud architecture practices.**
- Continuously practicing DevOps technologies through hands-on labs, cloud projects, and technical documentation.

Languages

English, Hindi, Bengali