

Shubham Singh

Bangalore, India

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TECHNICAL SKILLS

Programming Languages: Python, Java, YAML

Scripting Languages: Bash/Shell Script

Databases: MySQL, MongoDB, PostgreSQL, AWS RDS, DynamoDB

DevOps Tools: Jenkins, Docker, Ansible, Terraform, Grafana, Prometheus, GitHub

Cloud Technologies: AWS (IAM, EC2, AMIs, EBS, Elastic Beanstalk, ECS, VPC, Lambda, Load Balancing, Route53, S3, ECR, ECS Fargate, CloudWatch, SNS)

Platforms & Services: Linux, Nginx, AWS CLI & SDKs

PROJECTS

CI/CD Pipeline for Web Application

Tools: Jenkins, Docker, GitHub, AWS (EC2, S3, ECR), Nginx

- Designed and implemented a complete CI/CD pipeline to automate build, test, and deployment processes for web applications using Jenkins
- Configured Jenkins with GitHub webhooks for automatic build triggers on code commits
- Containerized applications using Docker to ensure consistent environments across development and production
- Implemented automated testing suites and configured email notifications for build success/failure status
- Deployed applications to AWS EC2 instances with Nginx reverse proxy, improving deployment speed by 60% and reducing manual errors

2048 Game Deployment using CI/CD on AWS Serverless Containers

Tools: AWS ECS, ECR, CodeBuild, CodePipeline, IAM, Docker, GitHub

- Architected and deployed a fully automated CI/CD pipeline using AWS serverless container services (ECS Fargate)
- Implemented AWS CodePipeline and CodeBuild to automate Docker image builds from GitHub source code
- Configured ECR for secure Docker image storage and ECS Fargate for serverless container orchestration
- Set up IAM roles and security policies following AWS best practices for least privilege access
- Achieved zero-downtime deployments with automated rollback capabilities in production environment

Monitoring and Alerting System on AWS

Tools: AWS CloudWatch, SNS, Lambda, EC2, IAM

- Designed and implemented a comprehensive cloud monitoring system using Amazon CloudWatch for EC2 instance performance tracking
- Configured CloudWatch alarms to monitor CPU utilization, memory usage, and application logs with custom thresholds
- Implemented SNS topics and email subscriptions for real-time alerting on system metric breaches
- Automated recovery actions using CloudWatch Events and Lambda functions for auto-scaling and instance management
- Created CloudWatch dashboards for real-time system visibility and performance metric visualization
- Established IAM roles and policies to secure monitoring operations and ensure proper access controls

EDUCATION

Garden City University

Master of Computer Application, GPA: 7.5/10.0

Bangalore, Karnataka

July 2024 - June 2026 (Expected)

Asansol Engineering College

Bachelor of Computer Application, GPA: 7.5/10.0

Asansol, West Bengal

July 2021 - June 2024

- Relevant Coursework: DevOps Practices, Cloud Computing, Containerization, Automation Scripting, Software Development Lifecycle, CI/CD Methodologies

CERTIFICATIONS

Python Scripting: Files, Inheritance, and Databases

Database Management Essentials