

# Abishek Kc

✉ abhishekkc701@gmail.com    ☎ 3343727920    📧 in/abhishekkc701    🌐 kcabishek.com

## EDUCATION

### Computer Science

Troy University • Troy, Alabama • Graduation Date- 2025

## PROJECTS

### Scalable Microservices Video Platform

Cloud-Native Architecture | AWS | Serverless | Containerization

- Developed a serverless video transcoding platform using AWS Lambda, API Gateway, ECS with Fargate, and Docker, improving processing efficiency by 20%.
- Automated infrastructure provisioning using AWS CloudFormation and implemented CI/CD with AWS CodePipeline and GitHub, reducing deployment time by 50%.
- Integrated Amazon Kinesis Data Streams for real-time analytics, capturing user interactions to analyze video performance.
- Ensured cloud security compliance with IAM roles, VPC isolation, and WAF, protecting the platform from web threats and maintaining 100% security compliance.

### Cloud-Native E-Commerce Platform

Cloud-Native Architecture | Secure Payment Processing | Scalability

- Built a serverless e-commerce platform on AWS using Lambda, API Gateway, DynamoDB, and S3 for a scalable backend with a React frontend.
- Integrated Stripe API for secure payment processing, ensuring 99.9% uptime and seamless transaction handling.
- Managed AWS infrastructure through AWS Management Console, reducing manual configuration time by 50%.
- Implemented CI/CD pipeline using AWS CodePipeline and GitHub, cutting deployment time by 40% and automating infrastructure updates.

### Cloud-Driven Portfolio Website

CI/CD Automation | Global Content Delivery | Secure Data Management

- Deployed a portfolio website using S3 for static hosting, Route 53 for custom domain management, and CloudFront for global content delivery, achieving 99.9% uptime.
- Automated CI/CD pipeline with GitHub and AWS CodeBuild, reducing deployment time by 40%.
- Integrated an API-driven contact page using API Gateway and AWS Lambda, storing user submissions securely in DynamoDB.
- Secured the site with SSL/HTTPS using AWS Certificate Manager, ensuring 100% secure connections.

## CERTIFICATIONS

### AWS Certified Solutions Architect – Associate

Amazon Web Services Training and Certification • 2024

### AWS Certified Cloud Practitioner

Amazon Web Services Training and Certification • 2024

## SKILLS

- **Cloud Platform Expertise:** AWS
  - Infrastructure as Code (IaC):** AWS CloudFormation
  - Containerization & Orchestration:** Docker, ECS, Fargate
  - Scripting & Automation:** Python, AWS CLI
  - Networking & Security Fundamentals:** VPC, IAM, ALB, WAF
  - Monitoring & Logging:** CloudWatch
  - CI/CD Pipeline Management:** AWS CodePipeline, GitHub
  - Database Management:** RDS, DynamoDB
  - API & Serverless Functions:** AWS Lambda, API Gateway
  - Version Control:** Git, GitHub
  - Frontend Development:** React, JavaScript
  - Content Delivery & Optimization:** AWS CloudFront
  - Real-Time Analytics:** Amazon Kinesis
  - Data Storage & Backup:** S3 Lifecycle Policies, Versioning
  - Security Best Practices:** AWS ACM, IAM Policies

## ACHIVEMENT

### TroyHack 2024 MVP Special Award Winners

- Winner for developing the "Troy Virtual College Consultant," a chatbot that provides personalized course recommendations and academic guidance using AI and natural language processing technologies.