

# Abishek Kc

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## EDUCATION

### Troy University

B.S. in Computer Science, (GPA: 3.4)

Troy, AL

Graduation Date: December 2025

- Organizations/Awards: Worlds Honors Scholarship

## PROJECTS

### Scalable Microservices Video Platform

Troy, AL

Event-Driven Computing | Containerization

November 2024 – Present

- Architected an event-driven, containerized Video Transcoding Platform on AWS, utilizing Docker with ECS Fargate and CloudFront to deliver videos within a minute post-upload, achieving 99.9% uptime.
- Automated Infrastructure as Code (IaC) using AWS CloudFormation, reducing deployment time by 30% and enabling rapid, scalable infrastructure adjustments to handle variable user demand.
- Implemented CI/CD pipelines, AWS WAF, and AWS Cognito for secure user authentication, mitigating up to 90% of common security threats, and ensuring a resilient and secure video processing workflow.
- Developed real-time analytics using Kinesis and AWS Analytics services, providing insights into user behavior and optimizing video delivery for up to 500 concurrent users with low latency and consistent performance.

### Cloud-Native E-Commerce Platform

Troy, AL

Secure Payment Processing | Scalability

September 2024 – October 2024

- Developed a serverless e-commerce architecture on AWS with Lambda, API Gateway, DynamoDB, and S3, supporting high scalability and collaborating on the React frontend for seamless user experience integration.
- Integrated Stripe for secure, PCI-compliant payments, achieving 99.9% uptime and a 98% transaction success rate, with transaction speeds averaging under 2 seconds.
- Reduced manual configuration by 50% and operational costs by 20% through optimized AWS resource allocation, including S3 lifecycle policies and reserved instances, achieving efficient resource management.

### Cloud-Driven Portfolio Website

Troy, AL

Global Content Delivery | Secure Data Management

October 2024 – Present

- Deployed a portfolio website using AWS S3 for static hosting, Route 53 for custom domain management, and CloudFront for global content delivery, achieving 99.9% uptime.
- Integrated an API-driven contact page using AWS API Gateway and Lambda, processing over 100 user submissions securely stored in DynamoDB with 99.99% data durability.
- Ensured site security with SSL/HTTPS via AWS Certificate Manager, providing 100% secure connections for all users and enhancing user trust and engagement.

## CERTIFICATION AND EXPERIENCE

### AWS Certified Solutions Architect – Associate

Troy, AL

Amazon Web Services Training and Certification

August 2024

### AWS Certified Cloud Practitioner

Troy, AL

Amazon Web Services Training and Certification

July 2024

### Troy Hack 2024 MVP Special Award Winner

Troy, AL

Frontend Development Lead

October 2024

- Awarded MVP Special Award at Troy Hack 2024 (top project among 25 teams) for spearheading frontend development of Troy Virtual College Consultant, an AI-powered chatbot supporting academic planning for 500+ students.
- Integrated Retrieval-Augmented Generation (RAG), vector database, achieving 95% response accuracy in testing.

## SKILLS

**Cloud Platforms:** AWS (Lambda, API Gateway, S3, DynamoDB, EC2, ECS, Route 53, CloudFront, RDS, IAM)

**Infrastructure as Code (IaC):** AWS CloudFormation, Terraform

**Languages:** Python, YAML, React.js, JavaScript, Bash

**DevOps Tools:** AWS CLI, GitHub, AWS CodePipeline, Docker, Git

**Other Tools:** CloudWatch, S3, Linux/Unix, Networking (VPC, ALB, WAF)