

Humna Saqib

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EDUCATION

Valencia College

Orlando, FL

Bachelor's of Applied Science; Computing Technology and Software Development (Cloud Computing Concentration)

-Organizations/Awards: Dean's & President's Honors List; GPA (3.7)

- October, 2020 - June, 2024

CERTIFICATIONS

- AWS Certified Cloud Practitioner (CLF)
- Technical Certificate in Operations Support and Services (Valencia College)
- Introduction to Python and Apps course with Code First Girls

SKILLS AND INTERESTS

Skills: AWS Architecting, Python 3, OOP, Bash Shell Scripting, GitOps Development, CI/CD, DNS Administration, IAC, Terraform, Ansible, Docker

Soft Skills: Adaptable and self- motivated, Quick learner, Continuous Development Oriented, and Strong Communication skills

PROJECTS

Website hosting using Route 53, Cloudfront and S3

GitHub: <https://github.com/humnasaqib>

- Successfully designed and implemented an AWS-based website hosting, delivering a seamless user experience.
- Used Route53 to manage domain registration and to route incoming traffic.
- Implemented Amazon CloudFront for website content delivery for caching and delivering content with low latency.
- Configured AWS Certificate Manager to secure the website and to provide SSL certificates.
- Configured AWS S3 to store and manage website content.
- Configured CloudFront's caching efficiency for optimized content retrieval from edge location for cheaper solution.

Viewer counter using DynamoDB and AWS Lambda

- Used Amazon DynamoDB to store and manage the visitors who viewed my website.
- API Development: Created an AWS API Gateway and AWS lambda functions to provide a safe way for websites to interact with the database.
- Used AWS Lambda to create serverless functions using Python.
- Administered AWS services, Amazon DynamoDB for database, AWS API gateway for API Management, used AWS Lambda, python and boto3 library for serverless computing.

Frontend CI/CD Pipeline with AWS S3 Integration

- Developed and implemented a CI/CD pipeline for frontend code of my website, ensuring that the code changes automatically whenever I update it.
- Used GitHub actions to automate code integrating and deployment.
- Improved development efficiency to maintain code quality.

Automated Deployment with Ansible

- Designed and implemented automated deployment processes using Ansible playbooks to streamline server configuration.
- Orchestrated the installation and configuration of essential server components, including Nginx, Python, and LAMP stack.
- Achieved efficiency improvements by reducing manual intervention in routine system administration tasks.

Infrastructure Automation With Terraform

- Implemented IAC practices using Terraform to deploy resources like S3 buckets and EC2
- Created Terraform scripts for provisioning and maintaining AWS resources
- Demonstrated expertise in IaC principles and terraform practices

Containerized Django Web Application Deployment with Docker

- Developed a Django-based web app, implementing core functionality for seamless user interactions
- Utilized HTML and CSS to design an intuitive and user-friendly front end
- Containerized the web app using Docker, optimizing deployment processes for enhanced scalability

RELEVANT COURSES

- AWS Architecting and AWS Data Engineering
- Cloud Data Analytics Essential (AWS)
- Software Development 1

