Aayan Butt

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aayan-resume.com

PROFILE

Devops Engineer certified in AWS and Terraform. Proficient in Linux, Terraform, Networking and AWS Services. Successfully implemented CI/CD (Continuous Integration/Continuous Deployment) pipelines using GitHub Actions as well as Infrastructure as Code (IaC) with Terraform. Looking to further improve skills with Docker, CI/CD and Python.

SKILLS

AWS *(IAM, EC2, S3, Lambda, Route53, CloudFront)* • **Networking** *(NAT, OSI Model, VPN, TCP/UDP, DNS)* • **Linux** • **Git**

Terraform • **CI/CD**

PROJECTS

Terraform End to End Project, *Nginx Web Application hosted on an EC2 server via Terraform*
- Developed **Terraform** modules to automate **AWS** infrastructure, deploying Nginx on **EC2** instances.
- Created a well-architected **VPC** with **NAT Gateway**, **security groups**, and **routing tables**.
- Successfully managed and configured three different environments: production, development, and staging.
- Ensured secure and flexible credential management using environment variables, eliminating credential hardcoding.
- Set up a **CI/CD** pipeline using **GitHub Actions** for automated testing and deployments.
- Implemented best practices for version control and **Git**, maintaining a clear code history.

AWS Cloud Resume Challenge, *Serverless Web Application hosting a portfolio*
- Took advantage of various AWS service such as **Lambda**, **S3**, **DynamoDB** and **Cloudfront**.
- Added a visitor counter using **Python** and **Javascript**, which stores data in **DynamoDB**.
- Used **Python** and the boto3 library to create a **Lambda** function that acts as an API to manage any interactions between the frontend and the **DynamoDB** database.
- Used **Terraform** to define and deploy AWS resources using **IaC** (Infrastructure as Code).
- Set up a **CI/CD** pipeline using **GitHub Actions** for the frontend and backend

3-Tier Architecture on AWS using Terraform, *Apache Web Application hosted on an EC2 server via Terraform*
- Consists of a **VPC** covering 2 AZs (Availability Zones). Each AZ has 1 Public and 2 Private Subnets.
- Public Subnet contains a **NAT Gateway** and an **EC2** instance hosting the Apache Web Server.
- Private Subnet contains an **EC2** Instance that accesses internet through SSH via **NAT Gateway**.
- Also contains an **RDS** Instance that stores data, as well as an **ALB** (Application Load Balancer) and an **ASG** (Auto Scaling Group) for scaling and load distribution.
- Set up a **CI/CD** pipeline using **GitHub Actions** to automate any future changes to the infrastructure.

CERTIFICATES

- AWS Certified Cloud Practitioner
- AWS Certified Solutions Architect - Associate
- Hashicorp Certified: Terraform Associate

EDUCATION

2017 – 2019 **A Levels,** *Brampton Manor Academy*
ABB - Maths, Further Maths, Physics

2012 – 2017 **GCSEs,** *Brampton Manor Academy*
11 GCSEs A*-B including Maths and English

ORGANIZATIONS

Deengineers
An active member of the Deengineers community. Deengineers is a group of like-minded inviduals who focus on guiding, advising and helping people break into the world of tech. This includes producing roadmaps for different pathways, career advice and helping with interview preparation.