Aayan Butt

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○ https://github.com/aayanb134

🪪 PROFILE

Devops Engineer certified in AWS and Terraform. Proficient in Linux, Terraform, Networking and AWS Services. Successfully implemented CI/CD 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

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.Setup a **GitHub Actions** workflow to automate any future changes to the infrastructure.

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 **GitHub Actions** for **CI/CD** (Continuous Integration/Continuous Deployment) for the frontend and backend

📑 CERTIFICATES

- AWS Certified Cloud Practitioner ⧉
- AWS Certified Solutions Architect - Associate ⧉
- Hashicorp Certified Terraform Associate (In Progress)

🎓 EDUCATION

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

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

🏛 ORGANIZATIONS

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