Mohammed Allam

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EDUCATION

University of Calgary bachelor's in computer science   *Jan 2020 – July 2024*

AWS Certified Cloud Practitioner *Certificate*   *2023 – 2026*

SKILLS

Languages

Python	JavaScript / TypeScript	C / C++	Java	HTML / CSS

Tools

AWS	Docker	PostgreSQL	MongoDB	AWS Boto3 / Azure SDK
Azure	Ansible	MongoDB	REST API	React / Next.JS / Vue.JS
Terraform	GitHub Actions	Splunk	Django REST Framework	Unit Testing
Git	Jenkins	Agile	OOP	Microsoft Office 365

EXPERIENCE

Nutrien - **Cloud Engineering**   *May 2023 – Present*

AWS – Azure – Terraform – Jenkins – GitHub Actions – Splunk – Python – Boto3

- **Developed and deployed cloud infrastructure** utilizing Infrastructure as Code for improved scalability and manageability.
- **Optimized over 300 AWS Security Groups** for enhanced network security and compliance.
- **Saved costs** by optimizing cloud infrastructure through FinOps strategies and development of automated scripts.
- **Developed a CI/CD pipeline** for a wiki platform, ensuring real-time updates to DevOps and Cloud Team documentation with each code commit.

TC-Energy - Network Services Intern   *May – August 2022*

Agile – AWS – Jenkins – Ansible – Docker – Django Rest Framework – Angular – PostgreSQL – Python – TypeScript

- **Developed web application features** and collaborated on the **CI/CD pipeline implementation**.
- Created **automation scripts** for data monitoring and testing.
- Documented the web application implementation and team workflow processes.

TC-Energy - Network Services Intern   *May – August 2021*

Agile – AWS – Jenkins – Docker – PostgreSQL - Power BI – Python – TypeScript – Excel

- Created **Power BI dashboards** to monitor application status.
- Created a Data Connector and **automation scripts** for moving data and monitoring.
- Collaborated on the **development of the CI/CD pipeline**.
- Documented the web application development process.

PROJECTS

Home Server

Docker – Networking – Python - VPN

- A personal media server functioning as cloud storage, firewall, DNS server, and VPN.
- Accessible 24/7 on local network, hosting an extensive media library including movies, TV shows, music, audiobooks, pictures, and videos.
- Features automated backups, VPN connections to local network, ad blockers, firewalls, and a DNS server.
- All applications run on separate containers, communicating via TCP/IP and HTTP protocols.

Web Game

Docker – AWS – JavaScript – HTML - CSS

- Storyline -> Play

Find a Course Web App

Django REST Framework – React – Docker

- A tool to help university students in choosing suitable courses to take for their academic path.

Mario Kart Game

C – GPIO – SNES

- A 2D Mario Kart game with multiple levels, lives, and a cumulative score on a Raspberry Pi, using GIMP to handle graphics.
- Connected an SNES controller to a GPIO breadboard to enable user input.