

Muhammad Saad Hassan

DevOps Engineer

I am a computer science graduate. Looking for a challenging opportunity with an organization of repute that recognizes my true potential and effectively utilizes/nurtures my analytical, technical, and management skills to benefit mutual growth



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EDUCATION

Bachelor's in Computer Science FAST National University, Islamabad

02/2018 - 02/2022

CGPA: 2.51

Courses

- Programming/OOP
- Database Systems
- Machine Learning
- Data Mining & Data Warehousing
- Data Structures and Algorithms
- Networking, Operating System
- Digital Image Processing
- Probability and Statistics

WORK EXPERIENCE

DevOps Internee SkipQ

02/2022 - Present

Silicon Valley, California, USA.

Achievements/Tasks

- Built and operated a full-stack production-grade web application across various AWS Regions using Infrastructure-as-Code (IaC) constructs.
- Wrote RESTful Python application on AWS and used CI/CD to automate multiple deployment stages and store logs in CloudWatch.
- Built Docker-based API testing clients hosted on EKS & deployed through CodePipeline.
- GitHub Versioning, Code Reviews, Documentation, CloudWatch, Lambda, SNS, S3, DynamoDB, CodePipeline, API Gateway, Docker, EC2, ECR, EKS, ECS.
- Build a Flask app to load random images, build a Docker-based image for the app & upload it to ECR, then build ECS cluster & task definition of Fargate type & define Fargate service.

Data Analytics SoftStack Technologies

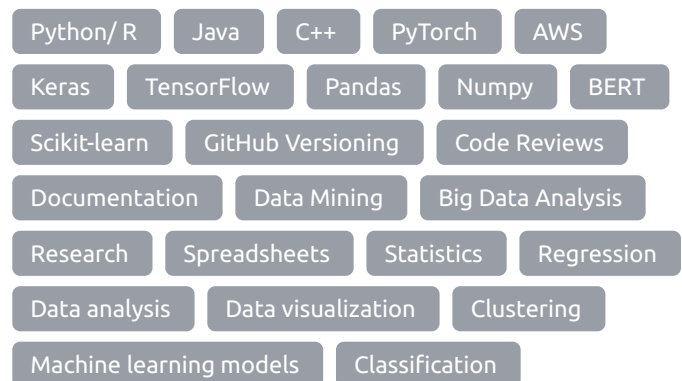
02/2021 - 02/2022

Islamabad, Pakistan

Achievements/Tasks

- Identified data sources, collected data, and sourced missing data.
- Organized data into usable formats, and analyzed data to find solutions to specific problems.
- Generated information and insights from data sets and identify trends and patterns.
- Assessed quality of data and removing or cleaned data and created visualisations of data.

SKILLS



PERSONAL PROJECTS

DeepMAD: Malicious Activity Detection (01/2021 - 02/2022)

- Deep Learning-based solution, which analyses Network Activity sequences to classify whether a certain node is Malicious or Benign.
- Devised and automated a tool that will detect malicious network activity.
- Tools/ Technologies: Python, Deep Neural Networks, Google Colaboratory, Kaggle, Flowmeter, PyTorch, Tensorflow, and scikit-learn.

Anomaly Detection System (08/2021 - 02/2022)

- Deep Learning-based solution, which identifies data points, events, and/or observations that deviate from a dataset's normal behavior.
- Anomalous data can indicate critical incidents, such as a technical glitch, or potential opportunities, for instance, a change in consumer behavior.
- Tools/ Technologies: Python, Deep Neural Networks, Google Colaboratory, Tensorflow, and scikit-learn.

Steam Gift Cards Store (08/2020 - 12/2022)

- Created a digital gift cards selling website and manage the whole transaction system including transaction history.
- Tools/ Technologies: Vue.js, Javascript, HTML, CSS, Routers, Hooks

Restaurant Management System (02/2018 - 08/2018)

- Type of point-of-sale (POS) software.
- Designed for restaurants, bars, food trucks, and others in the foodservice industry.
- Tools/ Technologies: C++, Microsoft Visual Studio, VS Code

Organizational Structure System (08/2019 - 12/2019)

- A system that outlines how certain activities are directed to achieve the goals of an organization.
- These activities included rules, roles, and responsibilities. The organizational structure also determines how information flows between levels within the company.
- Tools/ Technologies: Python, Tkinter library