

Abdurahman Abukar

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📁 Tech Blog - CoderCo

👤 Profile

Experienced DevOps Engineer with a track record of delivering client applications, solid knowledge of the DevOps framework, and industry certifications: AWS, Kubernetes, and Terraform. Community-driven; founded a non-profit organization to promote representation in IT, staying current with latest technologies and active in the industry through conferences and open-source contributions.

📁 Professional Experience

DevOps Engineer, DWP

February 2023 – present | London, UK

- Led the UAT and Performance Testing for the Data product
- Managed and guided a team of Junior DevOps engineers, effectively communicating with SREs and efficiently delegating tasks to the team.
- Conducted extensive testing of terraform module infrastructure and executed them in Gitlab pipelines.
- Held accountability for end-to-end module testing and assigned tickets to the team, ensuring Agile delivery of stories.
- Managed a data processing pipeline integrating obfuscation and de-obfuscation applications.
- Configured S3 buckets for efficient storage, retrieval of processed data, and config storage for multiple environments, used by Lambda functions
- Worked on Gitlab CI pipelines for smooth deployment of the applications and configuration management.
- Developed Python Lambda function using boto3 library to read config from S3 buckets
- Improved the pipeline's efficiency, reliability, and security, contributing to the development of the product.
- Utilized a dynamic tech stack consisting of AWS, Terraform, Gitlab CI, Python, BDD, Kafka, EMR, and S3.

DevOps Engineer, Credera

October 2022 – present | London, UK

- Led the migration of a client application to Azure Kubernetes Service (AKS) utilizing Helm charts and best practices.
- Automated smoke testing of API collections in an Azure DevOps pipeline using Newman, resulting in increased efficiency and accuracy.
- Implemented Azure DevOps pipeline, Dynatrace monitoring, and Terraform (IaC) to deliver robust and secure application deployments.
- Utilized Helmfile, K8s Secrets, Azure Key Vault, and Nginx for efficient container orchestration and configuration management.
- Developed and executed CI/CD pipeline using GitHub Actions for provisioning IaC, ensuring security and scalability of sandbox environments.
- Adopted at-rest encryption using KMS to secure data on CloudWatch log groups and other AWS services.
- Automated repetitive tasks with the use of Bash scripts
- Delegated tasks to team members based on stakeholder requirements, creating JIRA tickets for the visibility of tasks
- Utilized a select set of powerful tools to migrate the client application such as Azure, Terraform, Azure DevOps, Helm, and AKS

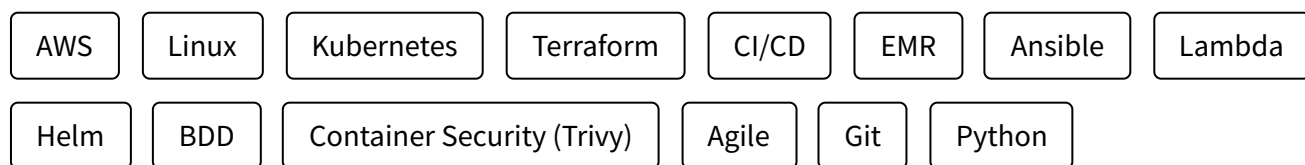
DevOps Engineer, Deengineers (Co-founder)

October 2020 – present | London, UK

- Co-founded and led a tech community focused on increasing the representation of Muslims in the technology industry
- Organized conferences, workshops, and knowledge-sharing sessions to provide professional development opportunities
- Led instruction on Git, Linux, and AWS Solutions Architect/ Kubernetes Administrator certifications
- Partnered with organizations to make course licenses available to community members
- Attended the Kubernetes Conference (Kubecon) to stay current on trends and technologies in the Kubernetes ecosystem
- Mentored junior engineers and offered guidance on securing DevOps positions
- Actively contributed to open-source projects and initiatives to promote community objectives
- Developed skills in community management, project management, and stakeholder engagement.

- Streamlined test automation by devising efficient test cases
- Developed new, well-tested code for various software projects including a demo app for a client
- Implemented security best practices using environment variables and HashiCorp vault
- Utilized Kubernetes and Helm to containerize ingress Nginx, and monitoring tools
- Automated local app deployment using port-forwarding and a taskfile
- Established Git version control framework using BitBucket
- Created ansible roles and set up client monitoring systems
- Conducted Production Readiness Reviews, analyzing systems and processes to ensure they met high standards of quality and efficiency
- Mentored Junior Engineers on the tech stack and Led a 12-week Academy program for Git and Linux fundamentals at Capgemini

Skills



Personal Projects

ChatGPT Discord Bot, Python

Created an AI Discord bot using Python that utilizes the Open-AI and Discord APIs to integrate ChatGPT into our Discord Muslim Tech Community. This project has resulted in community engagement by 30% in a community that is nearing 2000 members.

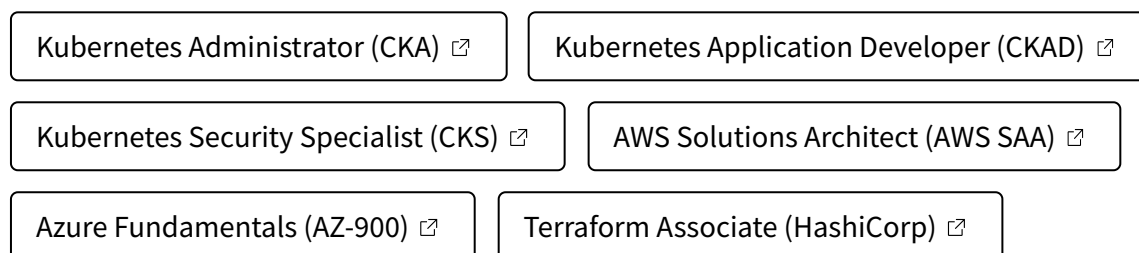
PassPal (Password Manager), Python

Created a Password manager that creates a key pair, and a password file, encrypts the content of the password file, and uses the private key to decrypt the content. The project uses Python OOP and utilizes conditionals to write the logic and calls on functions within a class.

3-tier Architecture using IaC, Terraform, CI/CD

Created a 3-tier architecture on AWS using Terraform modules. The architecture creates the VPC, Public, Private, and Database subnets, Internet and NAT gateways, Elastic IPs, and a bastion host. High availability is implemented by having a multi-az setup.

Certificates



Organizations

Deengineers (Tech Community), Founder

Founder of a fast-growing Tech Community consisting of ~2000 members to increase Muslim representation in Tech.

Education

BEng (Hons) Degree (1st Class with Merit),

Queen Mary University of London