Ahmed Belhaj

Devops & Backend Developer

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SUMMARY

Dedicated DevOps Engineer experienced in system administration, core development, and full-stack software development. Skilled in Linux, automation and CI/CD pipelines. Proven ability to lead deployments, , and ensure system stability. Strong collaboration and communication skills, with a focus on seamless integration and issue resolution.

EXPERIENCE

Campusna, Tunis— *Devops Engineer , Team Lead*

MAY 2022 -, PRESENT

- Designed and implemented infrastructure automation solutions using Terraform to provision and configure servers, networks, and storage resources.
- Established and managed continuous integration and deployment pipelines using Jenkins and GitLab CI/CD, improving efficiency and speeding up software delivery.
- Implemented configuration management practices using Ansible to ensure consistency and repeatability across multiple environments.
- Developed and maintained monitoring and logging systems using Nagios to proactively identify and resolve performance and availability issues.
- Deployed and managed applications on AWS, optimizing resource utilization and ensuring scalability and reliability.
- Led incident response efforts, conducting root cause analysis, implementing preventive measures, and conducting post-incident reviews to improve system reliability.
- Created and maintained comprehensive documentation for infrastructure, processes, and procedures, facilitating knowledge sharing and smooth handovers within the team.
- Set up and administered a Learning Management System.
- Managed Linux servers on AWS and implemented monitoring tools for system stability.
- Built an AWS Manager tool for resource allocation and implemented CI/CD pipelines.
- Improved the Auto Evaluation System for accurate and efficient student performance evaluation.
- Implemented an auto server backup solution for data protection and disaster recovery.

AfricaTek — *Full Stack Engineer*

JUL 2021 - PRESENT

- Developed web applications using Flutter and Python (Django),collaborating with cross-functional teams.
- Improved the Auto Evaluation System, enhancing student

SKILL

Python

Bash

Kubernetes

Docker

Terraform

Jenkins

Helm

Django Rest

AWS(EKS,EC2,Lambda,ECR,Fregate,RDS..)

Ansible

LANGUES

English Fluent

Arabic Native

French Professional Only

Certifications

IBM DevOps, Cloud, and Agile Foundations (IBM)

Applied Software Engineering Fundamentals (IBM)

AWS Cloud Solutions Architect(AWS & Coursera)

Software Design and Architecture(Coursera

Kubernetes Certified

performance evaluation and grading.

- Extended e-learning solutions for prestigious clients, including Santander Group and Paris Dauphine University.
- Created engaging learning materials, provided hands-on instruction, and mentored students.
- Implemented continuous integration and delivery practices for efficient software development processes.
- Utilized version control systems and participated in code reviews to ensure code quality and adherence to best practices.

Dar Dev — *Full Stack Engineer*

FEB 2023 - PRESENT

- Developed CleanCh, integrating real-time event tracking and geo-location.
- Built Netverse using Django REST Framework, Celery, and AWS.

Minduos — *Technical Consultant*

APR 2023,- AUG 2023

- Determined system architecture and deployment strategies, considering client requirements and best practices.
- Led the deployment process and implemented and maintained the deployed systems, performing regular updates, patches, and maintenance tasks.

Holberton School — *Teacher Assistance*

FEB 2021 - JUN 2021

- Mentored and coached students, facilitating their technical growth.
- Conducted integration tests and ensured seamless integration of various components.

EDUCATION

Holberton School, Tunis— *Bachelor degree*

SEP 2020 - JUL 2021

Software Engineering

HIGHER INSTITUTE OF INFORMATION TECHNOLOGY AND COMMUNICATION , Tunis— *Bachelor degree*

SEP 2018 - DEC 2020

Computer Science

NOTABLE PROJETS

Campusna IDE— *Professional*

Developed an online VS Code environment using Campusna SSO and a management dashboard with Django, deployed on AWS EKS.

AWS Management Dashboard— *Professional*

Integrated AWS Organization and Moodle, implemented resource allocation and tracking, and developed a notification system.

Netverse — *Professional*

Developed a unique platform for posting events and blogs, enabling users to earn points through ad engagement and convert them to AC coins. Features include content sharing, ad engagement for points, referral system with sign-in via referral link, voucher redemption, point transfer between users, wallet system for converting points to AC coins, tree and level system based on subscriptions, reward system for subscriptions, access to specific courses/content based on subscriptions, SSO integration for LMS and video conferencing, push notifications for events/posts/rewards/transactions, admin dashboard for managing users/events/articles/courses/configurations/subscription types, and web/mobile clients for managing content and points/AC coins.

Campusna System Migration— *Professional*

Role: Spearheaded the creation of a proof of concept and oversaw the test deployment for a multi-tenant Learning Management System (LMS). Challenges Ensured scalability, reliability, and efficient user management.

- Designed a robust architecture leveraging Amazon EKS for container orchestration, ensuring scalability and uninterrupted availability.
- Implemented agile development practices and established CI/CD pipelines using Jenkins.
- Integrated Keycloak and LDAP Server for centralized authentication and single sign-on (SSO) capabilities. Outcomes:
- Validated scalability and reliability under real-world conditions.
- Simplified user authentication and management, providing a seamless login experience.
- Accelerated feature development and deployment through agile methodologies and DevOps practices. Impact: Demonstrated the potential of the LMS in revolutionizing e-learning, laying a strong foundation for future advancements.

Campusna Intranet— *Professional*

- Led the migration to a Cloud architecture using Amazon Elastic Kubernetes Service (EKS) to overcome infrastructure limitations and provide scalability, flexibility, and high availability.
- Developed and deployed an intranet integrating open-source applications to centralize company services, enhancing access to information and internal communication.
- Implemented a custom mailing system using Roundcube and iRedMail to improve mailing process control and reduce reliance on external services.
- Utilized EKS's auto-scaling and centralized management for efficient deployment and scaling of applications tailored to user needs.
- Integrated DevOps practices and Docker containers to ensure consistency, portability, and ease of deployment and maintenance.
- Enhanced security with LDAP server integration for user authentication, authorization, and monitoring tools for performance tracking and anomaly detection.
- Introduced an intranet solution to facilitate smoother information exchange and improve internal collaboration.