

Achraf Ben Abdallah

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PROFILE

Recent graduate in Telecommunications Engineering, passionate about DevOps, with experience in CI/CD automation, cloud infrastructure management (Azure, Terraform), and container orchestration (Docker, Kubernetes). Certified in Azure Fundamentals (AZ-900), I am eager to deepen my skills in complex technical environments.

EDUCATION

2024 - Present Third-year Telecommunications Engineering student at **National School of Electronics and Telecommunications of Sfax**

2020 - 2022 Pre-engineering student at **Preparatory Institute for Engineering Studies of Sfax**

PROFESSIONAL EXPERIENCE

Final-Year research intern – Mitacs Globalink Université du Québec à Chicoutimi (UQAC) FEB-Aug 2025

- Automated the creation of security testing environments through a Flask-based RESTful API, managing SUTs, VMs, packages, and SSH keys using SQLAlchemy.
- Orchestrated full cloud infrastructure lifecycle using GitLab CI/CD, Terraform, and Ansible for dynamic and reproducible test scenario deployment.
- Integrated stimulation and observation mechanisms to simulate cyber-attacks and analyze system responses in isolated environments.

DevOps Engineering Intern — LOOYAS

Jul 2024 - Aug 2024 · 2 months

- Orchestration of CI/CD Pipelines: Architected and implemented CI/CD workflows using GitHub Actions, resulting in automation of 150+ deployments per month.
- Infrastructure as Code (IaC): Provisioned and configured 5 key services on Azure using Terraform.
- Monitoring: Set-up real-time dashboards with Grafana, covering 80% of system metrics.

DevOps Engineering Intern — Firmaiq

Jun 2024 - Jul 2024 · 1 month

- Cloud Infrastructure Setup: Designed a cloud infrastructure for a microservices platform, using Vagrant for a Kubernetes cluster and Ansible to automate 80% of VM configurations.
- Continuous Integration (CI): Configured Jenkins with a Jenkinsfile for each microservice, optimizing CI processes by 70%.
- Continuous Deployment (CD): Deployed microservices with Argo CD, automating 100% of updates.

Software Engineering Intern— REGIM Lab

Jun 2023 - Jul 2023 · 2 months

- Intelligent Irrigation System: Developed an IoT-based intelligent irrigation system as part of a team, reducing farmers operational load by 70%.
- UI Design and Deployment: Designed and deployed a responsive user interface with Flutter, increasing application accessibility by 100%.
- Data Management: Used Firebase for data management and real-time communication, reducing water wastage by 80%.

PROJECTS

Automated Android Evaluation System

[GitHub Link](#)

Created an innovative system for automating the assessment of Android practical assignments, resulting in a streamlined process that improved grading accuracy and efficiency for over 200 students per semester.

- Technologies: GitHub Classroom, GitHub Actions, Docker.

- Results: Improved learning experience with a 30% reduction in grading errors and a 40% increase in student satisfaction.

Automated Web Deployment for Personal Portfolio

[Portfolio](#)

Automated the deployment of my portfolio using Jenkins, GitHub, Terraform, and Azure.

- Technologies: Jenkins, GitHub, Terraform, Azure, Webhooks.

- Features: Developed an automated deployment strategy on Azure VM with Apache, ensuring code updates were processed within 5 minutes of each push.

DevSecOps Pipeline Project

setup DevSecOps pipeline on Azure with Terraform.

- Infrastructure: Configuration of Azure resources, networks.

- Implemented a robust CI/CD pipeline using Jenkins and integrated it with SonarQube for code quality checks, achieved a 40% reduction in deployment time and eliminated 25% of pre-release bugs.

- Integration: Webhooks between SonarQube and Jenkins, email notifications for builds.

SKILLS

Cloud & DevOps: Docker, Kubernetes, Terraform, gitlab , Jenkins, GitHub Actions, Azure, Prometheus, Grafana, SonarQube, Trivy

Software Development : Java, Bash, YAML, Angular, Flutter, JavaScript, Python, PHP

Artificial Intelligence: Machine Learning, OpenCV, YOLOv8, OCR

Project Management : Git, GitHub, Agile, Scrum

Languages: Français, Anglais, Arabic,