Achraf Ben Abdallah

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EDUCATION

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

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

PROFESSIONAL EXPERIENCE

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 .

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.

OCR-Based Defect Detection for Laser Printers

- Used EasyOCR to compare printed pieces against a reference image and detect defects.
- Achieved 100% accuracy in word position detection and 90% in color verification.
- Integrated the solution for real-time quality control in laser printers.

SKILLS

Cloud & DevOps
Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, Azure, Prometheus, Grafana, SonarQube, Trivy
Software Development
Java, Bash, YAML, Angular, Flutter, JavaScript, Python
Artificial Intelligence
Machine Learning, OpenCV, YOLOv8, OCR
Project Management
Git, GitHub, Agile, Scrum
Languages
Arabic, Français, Anglais

EXTRACURRICULAR ACTIVITIES

Organized a local video game tournament, Geekland.
Participated in the MedHack hackathon.