# Software Engineer Student and Cloud/Devops engineer

## Boutheina Hamdi

#### **Personal Declaration**

I am Boutheina Hamdi, a software engineering student with a passion for distributed systems, cloud solution architecture and scientific researchs. My devotion to this field is evident in my academic achievements therefore i am determined to continue developing my skills and making a positive impact in the tech industry.

## **Objective**

The goal i am hardly working to achieve is to join a team of experts in cloud solutions and scientific research, taking advantage of my passion and skills in software engineering to contribute to innovative research and technology development.

#### Curriculum

En 2021 - to present:

2nd year Software Engineering Student ISSAT SOUSSE

En 2019 - 2021:

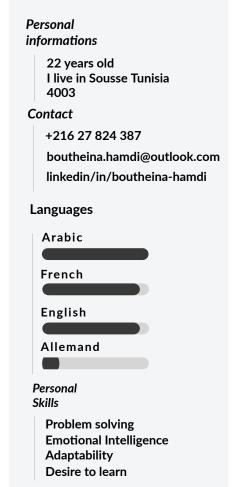
Integrated Preparatory Mathematics Physics Informatics (MPI)
ISSAT SOUSSE

En 2019 :

High school diploma in Technical Science with honors: Top 5% Kef Pilot High School

# **Experience**

- Part timer Azure Cloud/Devops Engineer at ASTROLAB 2022-09-06 | to present
  - Infrastructure as a code solutions using Terraform and Bicep on Azure Protal.
  - Docker containerization.
  - Designing microservices architecture in Kubernetes.
  - Anticipating scalability strategies to ensure applications availability on Azure: Prometheus is being used as a monitoring service to trigger http requests, and keda (Kubernetes event-driven autoscaler) is being used to scale pods.
  - Ensure application's security:
    - Secure health care applications hosted on Kubernetes by managing virtual networks using Network Security Groups and VPN Gateways.
    - Setting rules to control ingress and egress traffic using firewalls.
    - Storing sensitive information like passwords, keys, and certifications by taking advantage of Azure key vaults.
  - Deployment automation using CI/CD with Azure pipeline.



- Azure Cloud Engineer Internship at ASTROLAB: Deployment stratgies to Azure cloud 2022-06-01 | 2022-07-31
  - Devolping DotNet microservices using asp.net core 6.
  - Docker containerization: connecting microservices using Docker compose.
  - Designing infrastructure in azure cloud for microservices using Bicep and deploying them to Azure Container Apps.
  - Communicate microservices using Dapr service invocation and Dapr Pub/Sub.
  - Deployment automation using CI/CD with Azure pipeline.

### **Skills**

| C#           | Asp.Net Core | .Net           | Azure Cloud | Azure Devops                |
|--------------|--------------|----------------|-------------|-----------------------------|
| Docker       | Kubernetes   | Istio          | Helm Chart  | <b>Grafana/Prometheus</b>   |
| Microservice | Middleware   | Design Pattern | DDD         | <b>Inversion of Control</b> |
| Java         | J2EE/JEE     | Active MQ      | Kafka       | Rabbitmq                    |
| C/C++        | PHP          | Symfony        | Python      | Dapr                        |
| HTML         | CSS          | Bootstrap      | Javascript  | OracleDB                    |
| SQL          | PL/SQL       | Json           | Yaml        | XmI                         |
| Agile        | Scrum        | Kaban          | Scrumban    | Lean                        |

#### Certifications

Microsoft Learn Student Ambassador Certifications 2022-2023

## **Trainings/courses**

- Domain Driven Design Fundamentals: on Pluralsight
- Enhancing application communication with grpc: on plurasight
- Kubernetes for Developers: on plurasight
- · Microsoft azure network Engineer: design and implement core Networking infrastrucutre
- Microsoft Azure Security Technologies
- Learn AKS storage infrastructure: on Udemy
- Azure DevOps CI/CD piplines: on Udemy

## **Community life**

Head of advanced web departement and .NET Trainer oct 2020-2022



Alpha Microsoft Learn Student Ambassador 2022-2023



.NET Trainer at Microsoft Issatso Club 2023



Women Techmakers Ambassadors 2022-2023

