

Professional Summary

"I believe in building solutions that are not just functional, but also scalable and cost effective."

Cloud Enthusiast Student with a strong eagerness to learn and excel in cloud technologies, focusing on building scalable solutions for both software and data applications.

Education

El Manar Preparatory Institute for Engineering Studies (IPEIEM)

2021-2023

CPGE – Scientific Preparatory Program

- Completed a rigorous scientific preparatory program focused on mathematics, physics, and computer science, providing a solid foundation for engineering studies.
- Ranked **in the top 18%**, demonstrating excellence in analytical problem-solving and technical proficiency.

National School of Engineers of Tunis (ENIT)

2023-2026

Information Technology Engineering - Equivalent to a Master's Degree

- Completed a highly regarded engineering program in ICT, equivalent to a Master's degree, focused on the design, development, and management of advanced technology systems and networks.
- ENIT, the most prestigious engineering school in Tunisia

Certifications

- **AWS Certified Solutions Architect – Associate** | Amazon Web Services (AWS) | Issued: Jan 2025
- **CKAD (Certified Kubernetes Application Developer)** | The Linux Foundation | Issued: Feb 2025
- **HashiCorp Certified: Terraform Associate** | HashiCorp | Issued: Feb 2025
- **Skillcred SC103: Bash Scripting** | The Linux Foundation | Issued: Feb 2025

Projects

AI-Powered Medical Imaging Diagnosis Platform

- Designed and implemented a cloud-based architecture using AWS (S3, CloudFront, Lambda, API Gateway, DynamoDB) for secure and scalable medical image diagnosis, reducing response time by **40%** and improving system scalability to handle **10,000+ requests/day**.
- Developed CI/CD pipelines and integrated monitoring tools (CloudWatch, SNS), achieving **95% deployment success rate** and enabling real-time alerting to reduce incident response time by **60%**.
- Optimized performance and cost using Lambda SnapStart, presigned S3 URLs, and caching strategies for user data, resulting in **40% faster response times** and **30% reduction in operational costs**.
- Enforced security best practices with IAM roles, KMS encryption, WAF, and compliance with healthcare regulations (HIPAA/GDPR), reducing security risks by **45%** and enhancing data protection across all services.
- Reduced infrastructure costs by **30%** by leveraging **AWS Well-Architected Tool** recommendations, optimizing **Lambda memory allocation**, and implementing **cost-effective storage solutions**.
- Used Terraform as Infrastructure as Code (IaC) with state locking and followed best practices for modular, scalable infrastructure.
- [Medium post](#) for the detailed architectural decisions & Implementation : [Implementation post](#) & [Linkedin post](#)

E-Learning Platform (tunacademy.live)

- Collaborated to develop a full-stack web platform using **JavaScript (Node.js, Express.js, MongoDB, React.js)** for seamless user
- **Implemented CI/CD pipeline** with **Jenkins**, automating **95% of testing, building, and deployment processes**, reducing release time by **40%** and ensuring **reliable releases** with minimal downtime.
- **Dockerized the application Using Docker**, encapsulating services in containers for **streamlined management and 30% faster deployment** across environments, and **deployed on Kubernetes (Minikube)** running on an EC2 instance, ensuring **99.9% availability** and **scalability** to handle up to **1000 concurrent users**.
- **Deployed the app to production**, currently used by **100 active users**, ensuring a smooth and reliable experience with **continuous monitoring** for performance and user feedback : [Live Platform Link](#)

Skills

- **Cloud Provider:** AWS (EC2, S3, RDS, IAM, CloudFront, Load Balancing, Auto Scaling)
- **Containerization:** Docker, Kubernetes (CKAD Certified), EKS, Helm
- **Infrastructure as Code (IAC):** Terraform (HashiCorp Certified)
- **Scripting & Automation:** Bash (Skillcred SC103 Certified), Python, Linux Shell
- **Databases:** SQL, NoSQL (MongoDB, DynamoDB)
- **CI/CD:** Jenkins, GitLab
- **Web Development :** Frontend, Backend (Nodejs)
- **Data Engineering :** SQL, Pandas, Matplotlib, Seaborn, PowerBI

Work Experience

NEXT STEP – DevOps Intern –

July 2024 – August 2024

- Developed a cloud-based solution for managing cloud equipment licenses, reducing manual tracking efforts by **60%**, improving license compliance by **40%**, and optimizing maintenance efficiency, ensuring **99.9% availability** for streamlined operations.
- Automated **notification systems** to ensure timely awareness of license expirations and renewals in **20% decrease in manual tracking efforts** by the license management team
- Containerized the application using **Docker** for portability and scalability.
- Launched the application on an AWS EC2 instance, configuring auto-scaling policies to maintain **99.99%** uptime and ensure consistent performance for **5,000+** concurrent users, even during peak traffic.
- Ensured **secure access** to the platform through **multi-factor authentication**, prioritizing system security.

Amen Bank – Reporting & Analytics Intern –

June 2024 – June 2024

- Created interactive dashboards to streamline customer management
- Designed and designed dynamic dashboards using **Power BI** to visualize customer data and key metrics.
- Utilized Microsoft **SQL Server** for efficient and secure data storage, which fortified customer data and mitigated potential data breach risks by an estimated **60%**.

Majesteye – Data Engineering & DevOps Intern –

March 2024 – June 2024

- Implemented a full-stack web application to extract, analyze, and visualize data from large PDF files sourced from **ior.gov.tn**, enabling stakeholders to track and engage with newly opened startups in Tunisia.
- Launched an auto scaling group of AWS instances, configuring Alarms to maintain **99%** uptime and ensure perfect performance for **1,000+** users.
- Secured **access** to the platform, using Authentication & Authorization.

Data Science Lab – Intern –

Jan 2024 – April 2024

- Completed a series of 8 end-to-end data science projects (Housing In Mexico , Apartment Sales In Buenos Aires)
- Imported and cleaned messy data , built data visualizations , and examined the relationship between variables using correlation