

# Ahmed Marzougui

## DevOps Engineer

Phone: +216 58 911 742 — Email: [ahmed.marzougui@esprit.tn](mailto:ahmed.marzougui@esprit.tn) — Tunis, Tunisia

LinkedIn: <https://www.linkedin.com/in/ahmed-marzougui-cloud> — GitHub: <https://github.com/MarzouguiAhmed9>

### Profile

Final-year engineering student in IT Infrastructure & Cloud Computing, seeking a 6-month full-time graduation internship in Cloud/DevOps starting December 2025. Proficient in Kubernetes, CI/CD, Terraform, and AWS. Motivated, adaptable, and eager to contribute to cloud-native environments.

### Education

<b>IT Infrastructure and Cloud Technology Engineering</b>	2022 – Present
Private Higher School of Engineering and Technologies	
<b>Mathematics and Physics Preparatory Cycle</b>	2019 – 2022
Higher Institute of Applied Sciences and Technology of Mahdia, Tunisia	

### Work History

<b>DevSecOps Intern</b>	Jun 2025 – Sep 2025
ST2I, Tunisia	
<ul style="list-style-type: none"><li>Deployed Spring Boot microservices on OpenShift using Helm and RBAC, reducing deployment time by 87% across 3 environments and improving SonarQube security score by 35%.</li><li>Implemented GitOps with Argo CD and built a secure CI/CD pipeline integrating GitLab, Trivy, SonarQube, Prometheus, and Grafana, achieving 99.5% uptime and 95% vulnerability detection pre-production.</li></ul>	
<b>DevOps Intern</b>	Jun 2024 – Jul 2024
SOCOOPEC, Tunisia	
<ul style="list-style-type: none"><li>Developed a full-stack web application for internal stock management using Angular and Spring Boot (JWT).</li><li>Automated front-end delivery with GitHub Actions and deployed it to AWS EC2, reducing manual effort by 80%.</li></ul>	

### Projects

<b>Private Cloud with OpenStack &amp; Kubernetes</b>
<ul style="list-style-type: none"><li>Provisioned VMs with <b>Nova</b>, configured networking via <b>Neutron</b>, managed images using <b>Glance</b>, and attached persistent storage from <b>Cinder</b>; automated deployment with <b>Heat</b>.</li><li>Deployed a <b>Kubernetes cluster</b> on top of the private cloud to orchestrate Pods and services.</li></ul>
<b>Terraform VPC Infrastructure</b> — Terraform, AWS VPC, IaC
<ul style="list-style-type: none"><li>Created reusable Terraform modules to automate VPC provisioning, cutting deployment time by <b>70%</b> and improving consistency.</li></ul>
<b>Automated KVM Virtual Lab</b> — KVM/QEMU, libvirt, Ansible, Cloud-init
<ul style="list-style-type: none"><li>Designed an automated virtualization lab with Ansible, libvirt, and Cloud-init to rapidly provision preconfigured VMs (network + storage), reducing setup time from hours to minutes for DevOps and testing environments.</li></ul>
<b>3-Tier AWS Architecture</b> — AWS VPC, EC2, ALB, Auto Scaling, Aurora MySQL
<ul style="list-style-type: none"><li>Engineered a highly available and scalable 3-tier AWS architecture featuring secure network segmentation, autoscaling EC2 instances behind internal and external ALBs, and a multi-AZ Aurora MySQL database for robust fault tolerance, providing seamless backend integration with Node.js and React.js applications.</li></ul>

### Skills

<b>Programming:</b> Python, Java, JavaScript, PHP, C/C++, Shell Script, Rust, Go
<b>Frameworks/Tools:</b> Spring Boot, Angular, Symfony, .NET, Docker, Kubernetes, Jenkins, MySQL, Nginx
<b>Virtualization/Systems:</b> QEMU/KVM, OCI/Docker Images, Microservices Architecture
<b>Cloud/DevOps:</b> AWS, Terraform, OpenStack, Ansible, Grafana, GitLab, OpenShift, Argo CD, Helm, ELK Stack
<b>Networking:</b> AWS VPC, BGP (GNS3), Juniper vSRX, Fortinet FortiGate, Firewall, NAT

### Languages

French (B2), English (B2), German (A2), Arabic (C2)