

# Ben Nacib Firas

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## PROFESSIONAL EXPERIENCE

- DevOps Intern - Vermeg**, End of Studies Internship February 2024 – August 2024 | Lac 1, Tunisia
- Engineered an enterprise-grade deployment framework using Ansible, Jenkins, and OpenShift, reducing release times by 55% for applications on WildFly and WebSphere.
  - Orchestrated environment-specific delivery pipelines with integrated testing (Selenium, Cucumber), speeding up iterations and reinforcing release confidence.
  - Scripted provisioning workflows for PostgreSQL and Oracle, improving infrastructure consistency across deployments.
- DevOps Intern - Vermeg**, Summer Internship July 2023 – October 2023 | Lac 1, Tunisia
- Integrated Prometheus and Grafana to enable proactive health monitoring, cutting system downtime by approximately 40%.
  - Built a high-throughput messaging platform on Kubernetes with KEDA, deployed using GitOps pipelines via Argo CD and Helm, ensuring autoscaling and resilient operations under traffic spikes.
  - Streamlined build processes and deployment pipelines to reduce human errors, achieving a 15% drop in manual release issues.
- Full Stack Developer - BNA**, Summer Internship July 2022 – September 2022 | Tunis, Tunisia
- Developed an online banking platform enabling instant financial transactions and improved digital service accessibility.
  - Enhanced user experience with live account synchronization across branch networks, contributing to smoother customer interactions.

## PROJECTS

- KubleOps - Cloud-Native DevOps Platform on AWS**
- Built a modular EKS platform with multi-AZ support using Terraform, NAT Gateways, private subnets, and a bastion host for secure, isolated workloads.
  - Set up GitOps CI/CD with CircleCI, Argo CD, and Amazon ECR for automated Helm-based deployments.
  - Provisioned ALB Controller, Prometheus, Grafana, and Argo CD via EC2 bootstrapping script.
  - Enabled secure service access using IRSA, dynamic OIDC, and IAM roles to eliminate static credentials.
  - Integrated Trivy and SonarQube for container security and code quality checks.
- EcoAuto - Cost-Effective Web Hosting Architecture on AWS**
- Designed a reusable and scalable AWS-based architecture used to host projects like **Tal9i7.tn**, incorporating EC2, ASG, RDS, S3, CloudFront, and Lambda@Edge.
  - Automated infrastructure provisioning using Terraform and GitLab CI.
  - Configured event-driven workflows via Lambda and EventBridge to handle real-time security group updates and DNS automation.
  - Achieved 45% cost savings through efficient scaling, lifecycle scheduling, and rightsizing techniques.
- Cloud Resume Challenge (AWS)**
- Created a fully serverless portfolio site using S3, CloudFront, Lambda, and API Gateway, cutting hosting costs to <\$1/month.
  - Implemented CI-driven deployments with GitHub Actions, including Lambda tests and cache invalidation.
  - Defined infrastructure using 100% modular Terraform code for clean, versioned IAC workflows.
  - Monitored traffic with CloudWatch, integrating SNS alerts for system failures and usage thresholds.

## EDUCATION

- ESPRIT (École Supérieure Privée d'Ingénierie et de Technologies)** 2021 – 2024
- Preparatory Institute for Engineering Studies of Tunis** 2019 – 2021
- Baccalaureate in Experimental Sciences, Institution Laghmani** 2019

## SKILLS

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| <ul style="list-style-type: none"><li><b>Cloud Infrastructure:</b> OpenStack, Microsoft Azure, AWS</li><li><b>Continuous Integration and Delivery:</b> Jenkins, GitHub Actions, GitLab CI, Argo CD, SonarQube, Nexus, Trivy</li><li><b>Databases:</b> PostgreSQL, Oracle SQL, MySQL, MongoDB</li></ul> | <ul style="list-style-type: none"><li><b>Containerization and Orchestration:</b> Kubernetes, OpenShift, Docker, Docker Compose, Helm</li><li><b>Automation and Configuration:</b> Python, Bash, Shell Scripting, Ansible, Terraform, Keda</li><li><b>Application Servers:</b> WebSphere, WildFly</li></ul> | <ul style="list-style-type: none"><li><b>Version Control &amp; Collaboration:</b> Git, GitHub, GitLab, CircleCi, Jira</li><li><b>Monitoring and Logging:</b> Prometheus, Grafana, ELK Stack</li><li><b>Operating Systems:</b> CentOS, Ubuntu, RHEL, Amazon Linux</li></ul> |
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## CERTIFICATES

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| <ul style="list-style-type: none"><li>Certified Kubernetes Administrator</li></ul> | <ul style="list-style-type: none"><li>AWS Certified Solutions Architect - Associate</li></ul> | <ul style="list-style-type: none"><li>Microsoft Azure Fundamentals</li></ul> | <ul style="list-style-type: none"><li>AWS Certified Cloud Practitioner</li></ul> |
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## LANGUAGES

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| <ul style="list-style-type: none"><li>English: B2</li></ul> | <ul style="list-style-type: none"><li>French: B2</li></ul> | <ul style="list-style-type: none"><li>Spanish: A2</li></ul> |
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