Firas Ben Nacib

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PROFESSIONAL EXPERIENCE

DevOps Engineer (Freelance) - Tal9i7 Sep 2024 – Present │ Remote, Tunisia
- Collaborating with a small team to operate multiple AWS environments defined with Terraform.
- Introduced cost controls using EventBridge and Lambda, including off-hours shutdowns, backups, and log retention, reducing monthly costs by **45%**.
- Configured monitoring and incident notifications with CloudWatch metrics and logs, SNS, and external uptime checks.

DevOps Engineer (Intern) - Vermeg, End of Studies Internship Feb 2024 – Aug 2024 │ Lac 1, Tunisia
- Developed a deployment framework using Ansible, Jenkins, and OpenShift, reducing release times by **55%**.
- Orchestrated multi-branch pipelines with integrated testing (Selenium, Cucumber), speeding up iterations.
- Scripted provisioning workflows for PostgreSQL and Oracle, improving infrastructure consistency across deployments.

DevOps Engineer (Intern) - Vermeg, Summer Internship Jul 2023 – Oct 2023 │ Lac 1, Tunisia
- Built a messaging application with ActiveMQ, deployed using GitOps pipelines via Argo CD and Helm on Kubernetes with KEDA.
- Integrated Prometheus and Grafana to enable proactive health monitoring, cutting system downtime by approximately **40%**.
- Operated Jenkins pipelines, reducing manual release errors by **15%**.

Full Stack Developer (Intern) - BNA, Summer Internship Jul 2022 – Sep 2022 │ Tunis, Tunisia
- Delivered an online banking solution enabling instant financial transactions and improved digital service accessibility.

PROJECTS

Talos-HyperV-Bootstrap 🔗
- Crafted an interactive PowerShell script for creating and bootstrapping Kubernetes clusters on Talos Linux with Hyper-V. **Demo** 🔗

KubleOps - Cloud-Native DevOps Platform on AWS 🔗
- Built a modular Terraform EKS platform with multi-AZ VPC, private API, configurable NAT, optional bastion, and VPC endpoints.
- Set up GitOps CI/CD for automated Helm deployments with image scanning and ECR.
- Provisioned ingress, DNS, and observability via an automated bootstrap.
- Enforced security with workload identity, Pod Security, NetworkPolicies, HPAs, PDBs, and Karpenter for right-sized autoscaling.

EcoAuto - Cost-Effective Web Hosting Architecture on AWS 🔗
- Designed an AWS architecture with EC2 Auto Scaling, RDS, S3 static hosting, CloudFront, Route 53, and CloudWatch.
- Automated infrastructure provisioning using Terraform and GitLab CI.
- Established event-driven workflows via Lambda and EventBridge to handle real-time security group updates and DNS automation.
- Optimized delivery with S3, CloudFront, and Lambda@Edge for dynamic origin routing.

Cloud Resume Challenge (AWS) 🔗
- Created a serverless portfolio on AWS with Terraform using S3, CloudFront, API Gateway, Route 53, ACM, Lambda, and DynamoDB.
- Implemented CI deployments with GitHub Actions, including Lambda tests and cache invalidation.
- 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

SKILLS

- **Programming / Languages:**
  Python, Java, JavaScript, SQL, Bash, PowerShell, Groovy, YAML, HTML, CSS
- **Version Control & Collaboration:**
  Git, GitHub, GitLab, Jira
- **Monitoring and Logging:**
  Prometheus, Grafana, ELK Stack
- **Virtualization:**
  VMware, VirtualBox, Hyper-V, Vagrant, Multipass

- **Cloud Infrastructure:**
  OpenStack, Microsoft Azure, AWS
- **Continuous Integration and Delivery:**
  Jenkins, GitHub Actions, GitLab CI, CircleCI, Argo CD, SonarQube, Nexus, Trivy
- **Databases:**
  PostgreSQL, Oracle SQL, MySQL, MongoDB

- **Containerization and Orchestration:**
  Kubernetes, OpenShift, Docker, Docker Compose, Helm, KEDA
- **Automation and Configuration:**
  Terraform, Ansible
- **Linux Distributions:**
  CentOS, Ubuntu, RHEL, Amazon Linux, Talos Linux

CERTIFICATES

- Certified Kubernetes Security Specialist (CKS) 🔗
- Terraform Associate (003) 🔗
- Certified Kubernetes Administrator (CKA) 🔗
- Microsoft Azure Fundamentals 🔗
- Certified Kubernetes Application Developer (CKAD) 🔗
- AWS Certified Cloud Practitioner 🔗
- AWS Certified Solutions Architect - Associate 🔗
- Cisco Network Security 🔗

LANGUAGES

- English: B2
- French: B2
- Spanish: A2