Karim Cheurfi

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Career Objective

I'm an infrastructure engineer with 4 years of experience and a strong background in full-stack development (**5 years of experience**). Interested in building, designing and monitoring systems in the cloud as well as automating processes.

Technical Skills

Programming	:	Golang, Python, Node.js
Cloud Computing	:	EC2, S3, RDS, ALB, EKS, IAM, Lambda, API GW, Cloudwatch, EventBridge, SNS, SES, Cloudfront, Route53, Auto Scaling, DynamoDB, ACM
Infra as code	:	Terraform, AWS SAM, CloudFormation
CI/CD	:	GitlabCI, CircleCI, ArgoCD
Containers	:	Docker, Kubernetes, AWS ECS, Helm
Automation	:	Ansible, Bash, Boto3

Certifications

- **May 2023** - AWS Certified Solutions Architect Associate - credly badge
- **Jan 2023** - AWS Certified Developer Associate - credly badge
- **Dec 2022** - Certified Kubernetes Administrator - credly badge
- **Nov 2022** - Certified Kubernetes Application Developer - credly badge

Recent Experience

DevOps Engineer - Fullstack Developer   2023 – Present
moonlog.co   *Remote – Paris, France*

- Initially designed and provisioned the infrastructure on AWS using terraform (Including setting up a VPC, an EKS Cluster, An RDS Instance and S3 buckets for file storage)
- Used IRSA to setup the correct permission for the EKS cluster to communicate with other AWS Services
- Used helm to install ArgoCD on the cluster for automated deployments along with a GitlabCI pipeline
- Installed and setup Prometheus and Grafana to capture monitoring metrics and display them on dashboards
- Performed in-depth root cause analysis by troubleshooting production issues periodically
- Used ansible to provision an EC2 bastion host to connect to the Database in a private subnet
- Worked in close collaboration with the tech lead to migrate the app from EKS to a Serverless architecture (API Gateway / Lambda / S3 / Cloudfront and Cognito)
- Managed DNS using Route53 and TLS Certificates with ACM

DevOps Engineer   Feb 2020 - April 2023
Niceboard.co   *Remote*

- Introduced Docker/Compose and containerised both the backend and front end applications
- Leveraged Terraform to migrate the API Layer from DigitalOcean to AWS ECS Fargate and RDS across Multiple AZs to ensure high availability
- Used AWS Organisations to manage separate development, staging and production accounts
- Setup Auto Scaling on our ECS Fargate Cluster to optimise costs during downtime
- Implemented monitoring on ECS using Cloudwatch Container Insights
- Created various alerts using EventBridge, Cloudwatch Logs and SNS
- Developed a CI/CD pipeline on GitlabCI along with IAM to ensure a smooth deployment cycle
- Bootstraped and provisioned development VMs on EC2 using Terraform and Ansible
- Setup health checks against the cluster to ensure the application is running correctly

- Used security best practices related to 3 tier apps (API/DB layers in private subnets served by an ALB in public subnets)

Backend Developer Consultant   2017 – 2019
LinkValue Paris, France

- Developed a Full-Stack serious game in React.js, Redux, and Express.js (Client: Servier Pharmaceuticals)
- Extended the client facing API and helped improve the in-house ETL pipeline. in Node.js, Python, and PostgreSQL (Client: AXA)
- Added features and developed a new game on a smart piggy bank in Node.js (Client: Groupe LaPoste)

EDUCATION

University of Paris XII   Paris, France
MA in Web Studies   *2014*

RECENT PERSONAL PROJECTS

DevOps Engineer - Fullstack Developer   2022 – 2023
Ngnr.club   *Remote – Paris, France*

- Reduced operating costs to down 0 by migrating to a serverless infrastructure on AWS from Kubernetes on GCP
- Improved consistency by bootstrapping the infrastructure with AWS CloudFormation and terraform
- Developed the API using API Gateway, Lambda and Dynamo DB
- Designed and developed the UI using React.js, S3 and Cloudfront
- Developed and maintained an automated CI/CD pipeline on Gitlab for deployment on both staging and production environments
- Improved authentication security by using Amazon Cognito for user management

- Wrote S3, Cognito and DynamoDB automation scripts using python and boto3