

Mohamed Sofiene Barka

SOFTWARE ENGINEER - SRE

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Education

ICT Engineering Degree

National Institute Of Applied Sciences & Technology - INSAT, 2019 - 2024

Minor: Cybersecurity

Skills

Primary:

Golang, Typescript, Python, ReactJS
SQL, Node, Redis, Docker, CI/CD

Familiar:

Deno, Kubernetes, Solidity, Terraform
gRPC, RabbitMQ, AWS, GCP, IoT

Others Technologies:

GraphQL, Kafka, Svelte, Neo4J, BI
Ansible, Angular, Hyperledger Fabric

Non-Technical:

Business Model Development, Scrum
Problem Solving, Design Thinking

Activities

Securinets INSAT 2023

DevOps Instructor, CTF Author.
Wrote a lot of Web Challenges.

Google Developer Student Club INSAT, Oct 2020 - Present

Co-Head of DevOps & Cloud Dept.
DevOps Instructor

Dar Blockchain INSAT Chapter Sept 2022 - Present

Operations & Solidity Instructor.

ACM INSAT Oct 2019 - Apr 2022

Honorable Member in 2021. Built
The Programming Battle Royal: A
Competitive Programming Platform
That was used to host a Live Contest.

Engineering Student Experienced in Full Stack Engineering, Blockchain, Data, DevOps, Platform Engineering, Cloud Native, Seeking an Internship in Software Engineering, Architecting in the Cloud, DevOps/SRE, Data Engineering.

Professional Experience

Software - Platform Engineer — PCP Consulting

— June 2023 - October 2023

- Embarked on Designing a Kubernetes Platform System Architecture
- **Tags:** Kubernetes, Golang, ArgoCD, Kubebuilder, RabbitMQ

Site Reliability Engineering Intern — Vneuron Tunisia

— Summer 2023

- Migrated the monolithic solution Architecture to Kubernetes achieving High Availability using Load Balancing, Clustering, Connection Pooling.
- Conducted Load Testing on the Infrastructure to define the Configurations for the Solution's SLO requirements using k6.
- **Tags:** Kubernetes, Elastic Search, Azure, HAProxy, PostgreSQL Cluster

Blockchain Developer Intern — Talan Tunisia

— Summer 2022

- Implemented a Blockchain platform for Metaverse Project on Polygon.
- Attained recognition as the top-performing team amongst interns.
- **Tags:** Typescript, Solidity, React, DAO, Decentralized Identity

Frontend Developer Intern — Street Car Hub

— Summer 2021

- Built a Calendar Dashboard to manage Appointments.
- Optimized the previous Frontend Boilerplate for faster Development.
- **Tags:** Typescript, React, Redux

Personal Projects

PaaS for Deploying web applications — End of Year Project 2023

- Crafted a Platform PaaS as a Proof of Concept to deploy and monitor web applications straight from Github using Kubernetes Controllers, Kafka, Golang, RabbitMQ, Kaniko & Github API.

Web / Software Projects, 2022 - 2023

- Presented DevOps Project using Terraform, Kubernetes, Gitlab CI, Jaeger
- Created Goshier, a File Sharing Protocol using gRPC, Golang & Kerberos
- Developed Investee, a Sports Sponsorship Platform using NestJS, ReactJS
- Built a Donation Platform with NestJS, React, Web3, Stripe, Postgres
- Constructed a CO2 Monitoring App with React, Express, Go, Postgres
- Coded an Invoice Management POC with React, gRPC, Fabric, Stripe

DevOps & Microservices — End of Year Project 2022

- Built a microservices Architecture in Go, Typescript, Redis, PostgreSQL. Collaborated to implement CI/CD pipelines and deploy on Kubernetes using Gitlab CI, Kubernetes, Prometheus, Grafana, Docker.

Certifications

Professional Cloud Architect — Google Cloud, Oct 2023