

Mohamed Sofiene Barka

SOFTWARE ENGINEER

Second Year Engineering Student
& Full stack Developer, interested
in DevOps & Cloud Engineering.
Cybersec. & Blockchain Enthusiast.

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Skills

Primary:

Typescript, ReactJS, Redux, SQL,
Node, Deno, Go, Python, NoSQL

Familiar:

Redis, Docker, Solidity, Kubernetes,
CI/CD, GraphQL, React Native

Have Used:

Angular, Hyperledger Fabric, gRPC,
C#, Terraform, Rust, AWS, Svelte

Activities

Securinets INSAT 2023

DevOps Instructor, CTF Author.

Google Developer Student Club

INSAT, Oct 2020 - Present

Co-Head of DevOps & Cloud Dep.

Dar Blockchain INSAT Chapter

Sept 2022 - Present

Operations & Solidity Instructor.

ACM INSAT Oct 2019 - Apr 2022

Honorable Member for the year 2021

Education

Computer Network Engineering Degree

National Institute Of Applied Sciences & Technology, Tunis, 2019 - present

Professional Experience

Blockchain Intern — Talan Tunisia

— Summer 2022

- Implemented a Blockchain infrastructure for Metaverse Project in Solidity & Typescript. We were Chosen as the best team among the interns.
- **Tags:** Metaverse, Solidity, Polygon, DAO, Decentralized ID, Unit Testing

Frontend Developer Intern — Street Car Hub

— Summer 2021

- Built a Calendar View To Handle Appointments using ReactJS, Redux
- Optimized the previous Frontend Boilerplate for faster Development
- **Tags:** Javascript/Typescript, ReactJS, Redux, NextJS, Vite

Personal Projects

Cloud Platform for Development & Hosting — Final Year Project 2023

- Co-designed a custom Kubernetes controller for automating deployment of web apps from Git repos to cluster, includes Static files and HTTP Servers.
- **Tags:** Go, Typescript, Kubernetes, IaC, Azure AKS

Gosher, A File Sharing Protocol — Academic Project, 2022 - 2023

- Created a File Sharing Protocol using gRPC, Golang & Kerberos

Carbon Emission Monitoring — TICAD8 Hackathon, Sept 2022

- Achieved the first prize in the TICAD8 Hackathon by coding a Carbon Emission Monitoring Platform using React, Golang, PostgreSQL, Flask

DevOps & Microservices — Final Year Project 2022

- Collaborated With The Group To Build a containerized multiservices App, Write The Pipelines & Deploy The App to Kubernetes using Azure
- **Tags:** Go, Typescript, Kubernetes, Gitlab CI, Prometheus, Grafana, Snyk

The Programming Battle Royale — ACM Contest 2022

- Built, Deployed & monitored A Competitive Programming Platform that were used to host a Live Contest
- **Tags:** Kubernetes, Typescript, ReactJS, Redux, GraphQL, PostgreSQL