

# Mohamed Sofiene Barka

SOFTWARE ENGINEER

Second Year Network Engineering  
Student & Web Developer interested  
in DevOps & Cloud.  
Security & Blockchain Enthusiast.

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## Skills

### Primary:

Typescript, ReactJS, Redux, SQL,  
NodeJS, Go, Python, MongoDB

### Familiar:

Redis, Docker, CI/CD, Solidity, Deno,  
GraphQL, C/C++, React Native

### Tried:

Angular, Kubernetes, Terraform,  
AWS, C#, gRPC, Svelte, Rust

## Activities

### Google Developer Student Club

INSAT, Oct 2020 - Present

Co-Head of DevOps & Cloud Dep.

### Dar Blockchain INSAT

Sept 2022 - Present

Operations & Blockchain Instructor.

### Cybersecurity CTF Player

Jul 2022 - Present

### 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 a Metaverse Project using Solidity & Typescript. 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

### Sponsorship Platform — Academic Project, Nov 2022

- Collaborated on Creating a Decentralized Sponsorship Platform based on Expenses monitoring in the blockchain using React, NestJS, Solidity & Jira

### P2P File Sharing Protocol — Academic Project, Oct 2022 - Nov 2022

- Created a File Sharing Protocol accomplishing fast transfers with the Torrent technology model using gRPC, Golang, Rust & React

### 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 multiservice 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 custom Competitive Programming Platform that were used to host a Contest
- **Tags:** Kubernetes, Typescript, ReactJS, Redux, GraphQL, PostgreSQL