

# Mohamed Sofiene Barka

SOFTWARE ENGINEER

Senior-year Engineering Student  
with background in Web Development,  
Blockchain, DevOps, Cloud. Seeking a  
DevOps/SRE end of study internship.  
Eager to use my expertise to tackle real  
world software challenges.

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## Skills

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

**Familiar:**  
Deno, Kubernetes, Solidity, Terraform  
gRPC, RabbitMQ, C, C++, AWS

**Others Technologies:**  
GraphQL, Kafka, Rust, Svelte, Azure  
Ansible, Angular, Hyperledger Fabric

**Non-Technical:**  
Business Model Development, Scrum  
Problem Solving, Design Thinking

## Activities

**Securinets INSAT 2023**  
DevOps Instructor, CTF Author.

**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.

**TICAD8 Hackathon Sept 2022**  
Achieved the first prize by coding  
Carbon Emission Monitoring  
Platform Proof of Concept.

**ACM INSAT Oct 2019 - Apr 2022**  
Webmaster of the Programming Battle  
Royal. Honorable Member in 2021

## Education

### Computer Network Engineering Degree

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

## Professional Experience

### Platform Engineer — PCP Consulting

— June 2023 - Present

- Embarked on a Study on various Cloud Native tools and ecosystem to design an architecture for kubernetes management platform.

### Site Reliability Engineering Intern — Vneuron Tunisia

— Summer 2023

- Migrated the existing Project architecture to Kubernetes achieving High Availability using Load Balancing, Clustering, Connection Pooling.
- Conducted Load Testing on the Infrastructure to define the Configurations for the Project's performance Requirements using k6.
- Setup Tracing to effectively debug the Software performance using Jaeger.
- **Tools:** Kubernetes, Elastic Search, Azure, HAProxy, PostgreSQL, Nginx

### Blockchain 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 as a Service Proof of Concept to deploy and monitor web applications straight from Github using Kubernetes Controllers, Kafka, Golang, RabbitMQ, Kaniko Github API.

### Gosher, A File Sharing Tool — Academic Project, 2022 - 2023

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

### Investee — Academic Project, December 2022

- Developed a Sports Sponsorship Platform using NestJS, ReactJS.

### DevOps & Microservices — End of Year Project 2022

- Collaborated to Build a containerized microservices Application, and implement CI/CD pipelines and deployments on Kubernetes using Go, Typescript, Kubernetes, Gitlab CI, Prometheus, Grafana, Snyk

### The Programming Battle Royale — ACM Contest, April 2022

- Built, deployed monitored a Competitive Programming Platform that was used to host a Live Contest using AWS, Typescript, ReactJS, Redux, Kubernetes, GraphQL, PostgreSQL.