

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 tackle real world challenges.

♥ <https://hmlndr.me>

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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

Have Used:

GraphQL, Kafka, Rust, Svelte, Azure
Ansible, Angular, Hyperledger Fabric

Non-Technical:

Business Modeling, Agile & 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 - present

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 and Load Balancing, this involved using Postgres Replications, Elastic Search, Envoy and HAProxy.

- 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.

Blockchain Intern — Talan Tunisia

— Summer 2022

- Implemented a Blockchain platform (DAO & Decentralized Identity) for Metaverse Project using Solidity, Polygon & Typescript.

- Attained recognition as the top-performing team amongst interns.

Frontend Developer Intern — Street Car Hub

— Summer 2021

- Built a Calendar Dashboard to manage Appointments using React, Redux.

- Optimized the previous Frontend Boilerplate for faster Development using Typescript and Vite.

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 Golang, Kubernetes Controllers, Kafka, 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