

# Sirine Achour

## Software Engineer

Versatile software engineer, experienced in development and passionate about automation, DevOps and security

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## — WORK EXPERIENCE

### DevOps & Software Engineering Intern

**Realities.io**, Germany, Feb 2022 - Jul 2022  
[A VR game development company](#)

- Introduced DevOps practices to a game development project.
- Designed and implemented CI/CD pipelines for a cross-platform VR project.
- Designed and developed an automation tool for synchronizing large remote and local assets using git-like operations.

**Applied skills** : Automation, Azure DevOps, Debugging, Docker, Documentation, Hyper-V, Oculus Quest, Playstation, PowerShell, Python, Self-hosted agents, Unreal Engine, Vagrant, Virtualization, Windows Containers

### DevOps Engineer & Frontend Developer

**Parcus Digital Solutions**, Tunisia, Apr 2021 - Sep 2021  
[An emerging startup with multiple international projects](#)

- Introduced DevOps practices to a web application.
- Designed CI/CD pipelines.
- Implemented a dynamic form builder.
- Managed user accounts, roles and access rights.
- Designed a user-friendly and functional UI.

**Applied skills** : Angular, Automation, Debugging, Documentation, Docker, Git, GitHub Actions, Testing, Web design

### DevOps Engineering Intern

**University of Michigan**, USA, Apr 2021 - Sep 2021  
[A highly ranked research university](#)

- Troubleshoot an AWS server instance.
- Upgraded a web app to the latest Node version.
- Analyzed and evaluated files and database tables(automatically).
- Studied, compared and merged development and production code and databases.
- Containerized a web app.

**Applied skills** : AWS, Automation, Docker, Documentation, Express, MySQL, NodeJS, Putty,Python, Troubleshooting

### Web Development Intern

**DOT IT e-business solutions**, Tunisia, Jul 2020 - Aug 2020  
[A leader in e-business solutions in Tunisia](#)

- Developed a Prestashop module for a website of a multi-location store :
- Designed and implemented a pop-up for re-routing a new user to a chosen shop location.
  - Implemented a tool for customizing the pop-up contents in the back-office

**Applied skills** : Prestashop, Web design

## — TECHNICAL SKILLS

### Software Engineering :

Algorithmics, Data Structures, Design Patterns, Distributed Systems, Documentation, Serverless Applications, Test Driven Development, UML

### Programming Languages :

Bash, C/C++, C#, Java, Javascript, PowerShell, Typescript, PHP, Python

### Web Development :

Angular, CSS, Express, HTML, NestJS, Prestashop, SCSS, Symfony, Vue.js, .Net Core

### DevOps :

AWS ECS, Azure DevOps, CI/CD pipelines, Cypress, Docker, FluxCD, Git, GitHub Actions, Hyper-V, Kubernetes, Puppet, RabbitMQ, Selenium, Vagrant

### Database Management :

MongoDB, MySQL, Oracle

### Other :

Arduino, Matlab, STM32, Unity

## — SOFT SKILLS

Written and oral communication, Flexibility, Analytical thinking, Detail orientation

## — EDUCATION

**National Engineering Diploma** — 2017 - Present  
**National Institute of Applied Sciences and Technology**, Tunisia

**Major** : Software Engineering

**Focus** : Software design/architecture, Development, Optimization, IT project management, Networks, Operating systems, Security

**Specialization** : DevOps, Testing

## — CERTIFICATES

**Google IT automation with Python Specialization certificate** Aug 2020

**General English diploma with honors**

Bourguiba institute of modern languages May 2015

## — SOCIAL ENGAGEMENT

**Winter Cup** — Feb 2020

Problem solving competition held at INSAT Competitive Programming with C++.

**Fast and Furious** — Feb 2020

Robotics competition held at INSAT

Built a rally robot which involved low level programming with Arduino.

**SheSolves** — Feb 2020

Problem solving competition held at INSAT Competitive Programming with Java.

## — ACADEMIC PROJECTS —

### **laC for a library application** — Jan 2022

Continuous deployment of a library application to a kubernetes cluster. This infrastructure not only contained the application at hand but also had metrics visualization, service mesh management, and 2 environments (development & production)

**Applied skills** : Azure Kubernetes Service, Docker, FluxCD, Grafana, Git, GitHub, GitOps, Helm, Ingress-Nginx, Istio, Kiali, Kustomize, Kubernetes, Prometheus

### **Collect/Connect** — Jan 2021 – May 2021

A single player educational card game that showcases the art work held at the University of Michigan's library and studies the links between them. I worked, within the University of Michigan research team, on 2 of the project's 3 main axis:

- Frontend : Game design and implementation.
- Backend : Design and implementation of a database and a RESTful API.

**Applied skills** : AI, Database design, Documentation, Game design, Git, MySQL, NestJS, REST API, Security, Unity

### **Administrative Website** — Jan 2021 – Feb 2021

A website for INSAT's staff to manage students' end of studies projects. - Frontend code - Backend code

**Applied skills** : Angular, Database design, Git, HTML/CSS/JS, MySQL, NestJS

### **Cryptographic Toolkit** — Nov 2020 – Jan 2021

A console app that offers a collection of cryptography tools :

- Hashing
- Encoding
- Key generation (RSA/ECIES)
- Symmetric encryption/decryption
- Asymmetric encryption/decryption
- Cracking hashes: simple brute force attack, identifying hashes, dictionary attack.

**Applied skills** : Cryptography, ECIES, Git, Python, RSA

### **ENICarthage Robots** — Feb 2020

Robotics competition held at ENICarthage

Built a Rough-road robot which involved low level programming with Arduino.

### **ACM INSAT CPC** — Feb 2020

Problem solving competition held at INSAT

Worked within the organization team.

## — INTERESTS —

Automation, Embedded systems, DevOps, Problem solving, Security, Technology

## — LANGUAGES —

- Arabic (native)
- English (bilingual)
- French (limited working proficiency)
- Spanish (elementary working proficiency)