

Mohamed Amine Frioua

Software Engineer

A software engineer with four years of experience specializing in back-end programming for web applications and platforms for the manufacturing industry, computer vision, and machine learning for object classification and quality control. Skilled in building dynamic data pipelines and streaming systems for efficient processing.



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SKILLS

DotNet C# - Phoenix
Elixir - Java - Js and Ts -
Labview -Matlab - C and
C ++ - Python- Flutter -
Ruby on Rails - Tailwind -
React Js -Avalonia UI-
Python- AWS

OS: Linux,Mac,Windows

LANGUAGES

English



French



Arabic



Japanese



CAREER PROGRESSION

Software Engineer Industrial ML

05/2021 - Present

Yokohama, Japan

<https://industrialml.com/>

Achievements/Tasks

- Building a data pipeline that does Image classifications on products in real time while streaming on a telemetry kit using Phoenix Elixir.
- Working on the telemetry kit that collects realtime data and send it to the cloud using Python and AWS
- Building various features in the IML web platform and mobile application using Ruby on Rails, Flutter and Java

Software Engineer 4D Sensor

01/2019 - 05/2021

Wakayama, Japan

Achievements/Tasks

- Developing software applications and interfaces using .Net framework and .Net Core (C#, WPF).
- Developing real-time analysis software applications based on computer vision algorithms to detect planar vibrations and strain distribution measurements using .Net, Python and Java.
- Implementing and developing an algorithm for tracking objects that works with robot arms using C++ and embedded C

Software Engineering Intern Fraunhofer IIS

03/2018 - 09/2018

Erlangen, Germany

<https://www.iis.fraunhofer.de/en.html>

Achievements/Tasks

- Testing and learning about the light field acquisition chain and computer vision technologies and algorithms.
- Refactoring the light field acquisition chain in Matlab using OOP Design Patterns.

Engineering Intern SagemCom Tunisie

06/2016 - 08/2017

Ben Arous, Tunisia

www.sagemcom.com

Achievements/Tasks

- Programming of a microcontroller circuits for a testing bench for SagemCom Product "Cable receiver and recorder" Using embedded C
- Designing the hardware and the pinout for the Microcontroller (PIC)

EDUCATION

National Engineering Master in Advanced Technology University of Carthage Enstab

09/2013 - 01/2018

Minor degree in Advanced
Electronics and Nanotechnologies