

DJAMEL HEMCH

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Driver's license B

MANAGER OF INFORMATION SYSTEMS AND SOFTWARE APPLICATIONS ARCHITECTURE

I am a dynamic and adaptable IT professional, committed to improving technology and organization.

I am ready to put my expertise at the service of an agile and forward-looking team.

My hands-on experience complements my academic knowledge, particularly in the field of coordination and team management through the numerous actions undertaken as part of my studies or in my personal projects.

STRENGTHS AND EXPERTISE

Développement d'applications logicielles
Compétences techniques
Résolution de problèmes

Gestion de projet
Leadership fort
Capacité à travailler sous pression

Gestion d'équipe
Apprentissage rapide
Gestion des opérations

TECHNICAL SKILLS

PHP
Python
C# / C++
Dev Tools(UML, Merise...etc)
Odo

Gestion de base de donnée
(MSSQL, ORACLE, SQL, MySql)
Linux/VPS
Machine/Deep Learning

Flutter & Firebase
AzureDevops
Git
Microsoft Office tools

PROFESSIONAL EXPERIENCE

A)-NAUTILUS Engineering Consulting (NAENCO) – Oran

October 2025- November2025

IT Systems Engineer – Office Infrastructure Project

Implementation of a complete IT environment for a new engineering office, including workstations and centralized server setup.

- Prepared and optimized 5 workstations: hardware cleaning, OS installation (Windows 11 Pro), Office 2019, antivirus, and CAD software (AutoCAD Plant 3D, CadWorx).
- Installed and configured Windows Server 2019 with centralized file sharing, user management, and license control.
- Set up secure remote access between the Oran office and the Italian division for real-time collaboration.
- Deployed data backup, email archiving (Yandex integration), and internet security with web filtering.
- Delivered full system documentation, access structure, and one week of post-installation support.

Technologies: Windows Server 2019 · Windows 11 Pro · AutoCAD Plant 3D · CadWorx · Yandex Mail ·

Remote Desktop · Backup Systems · Network Security

B)- Laboratory Abdelatif (Dr. Hakiki)

Avril 2025 - January 2026

Full Stack Developer & Project Manager

Design and development of a complete management system for medical laboratories, including

- Management of patients, doctors, samples, and analyses
- Monitoring the status of samples (urgent, rejected, validated...)
- Full integration with laboratory automates: automatic assignment of tubes, generation of barcodes, automatic transfer of results
- Generation of PDF reports, biological validation with signature, audit logs
- Billing, agreements, payment tracking, and overall statistics

Tool deployed to meet ISO quality standards, with a smooth and secure interface for biologists, technicians, and secretaries.

Technologies: FastAPI (Python) · MySQL (DB) · Laravel Blade · Medical automates ·

Patient & analysis workflow · Billing · PDF/Excel · Audit & backup

C)-Artist website “Souhila Bel Bahar” - link :
<https://souhilabelbahar.com/>

May 2025 - Avril 2025

Web Designer and Developer

Creation of a professional showcase site for the painter Souhila Bel Bahar (1934–2023), highlighting her career and works digitally.

- Front-end: HTML5, CSS3, JavaScript – responsive design and image gallery to showcase her series (Femmes Pétales, gouaches, céramique).
- Back-end: PHP native – simplified management of a handcrafted CMS to publish biography, news, and publications.
- Media integration: optimization of images, particularly historical and current works, smooth organization in visual pathways
- SEO & accessibility: semantic structuring (appropriate HTML tags), metadata for search engines.

Maintenance & deployment: secure web hosting, regular backups, adaptation to content evolution (exhibitions, recent publications)

Technologies : PHP · HTML · CSS · JavaScript · SEO

D)- OPGI ORAN BIR EL DJIR

Fev 2024- May 2024

Software Developer – Document scanning and data extraction application (OCR & Desktop App)

In this project, I developed a desktop application that allows scanning documents, automatically extracting data (names, dates, medical information, etc.) using the OCR pytesseract, and then generating and printing a voucher from the extracted data. This information is then stored in a SQL database (SQLite) with an interface allowing CRUD operations (add, modify, delete, search).

Technologies :

- Python
- Pytesseract (OCR)
- SQLite
- Tkinter (Interface GUI)
- PIL
- SQL

E)- SARL PROTEC IMPORT/EXPORT

Dec 2023- Oct 2024

WEB Developer(ERP)

As a developer at Protec, my main mission is to work on the company's ODOO ERP and to develop custom modules that meet the specific needs of the company. In addition, I participate in decision-making on projects and also manage them

Technologies :

- Python
- Odo
- XML
- Tkinter (Interface GUI)
- Integration d'API
- PowerPoint

F)- SAHM TECHNOLOGIES

Jan 2023 - Jul 2023

R&D Developer (Internship)

The project aims to improve the efficiency of sales representatives by providing optimized routes, allowing them to visit more points of sale in less time. An automated route planning system uses advanced algorithms and artificial intelligence to generate optimal routes.

Technologies :

- Python
- Deep Learning
- Clustering(K-means)
- Dijkstra algorithm
- Tkinter (GUI)
- Docker (Deployment)

G)- CESI.EXIA (Internship)

Jan 2022 - Jun 2022

Data science engineer and software developer

The aim of the project was to design a prototype for controlling access to a server room, based on a Client/Server architecture using a Raspberry Pi, a door-opening sensor, a USB camera and a PC for data hosting and the recruitment application. The overall objective was to provide access to the server room through facial recognition of individuals using deep learning algorithms.

Technologies :

- Python
- Anaconda 3
- Tensorflow
- Keras
- VGGFACES 19
- Deep Learning

H)- SONATRACH-AVAL(Internship)

Jan 2021 - Apr 2021

Full Stack Web Developer

Creation of a platform to facilitate the management and automation of ANEM's recruitment process. The end product was a platform that automatically gathered candidate data for recruitment campaigns.

Technologies :

- JSF (JavaServer Faces)
- XML
- BOOTSTRAP
- JAVA

I)- Private Client (Independant project)

April 2021 - May 2021

Full Stack Web Developer

Creation of a complete e-commerce website for a client with user profiles, shopping carts, likes and comments on selected admin items, an admin dashboard to monitor user accounts and activities, and a CRUD system for all website content.

Technologies :

- PHP
- SQL (phpmyadmin , mysql)
- HTML
- CSS
- JAVASCRIPT
- BOOTSTRAP

EDUCATION

Khelaf Oran High School

Baccalaureate

Sep 2015 – Jun 2018

CESI.EXIA Engineering School (BAC +5)

Manager of IS (information systems) architecture and software applications

Sep 2018 - Jul 2023

References are available on request.