

Tarek Berkane

Bouira Algeria

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“Simplicity is deceptively complicated.”

Personal Profile

A University of Bouira graduate student who is enrolled in the math and computer science program. Dedicated to software engineering, and specialising in machine learning, algorithms and full-stack web development. Searching mostly for Machine Learning, Data Engineer, and Python Development positions.

Education

University of Bouira

Bouira, ALG

MSc in Informaion systems and software engineering

Sept 2023

- Graduated with A class
- **Courses:** There are three semesters educative:
 - **First Semester:**Networking, Artificial Intelligence, Advanced Algorithmics and complexity, Advanced data structures, Operating system, Computer architecture, Design pattern, Cloud Computing
 - **Second Semester:** Software engineering,Networking, Infographics , Artificial Intelligence, Cyber Criminality, Distributed systems.
 - **Third Semester:** System on chip, Ad hoc networks, Deep learning, Optimisation, Big data, Information retrieval.
 - **Last Semester:**End of Cycle Project: Startup project: building a platform (web and mobile application) for a hotelier system for Algerian hotels for online booking with marketing norms (Yield Management and AIDA) and recommendation system based on IA

University of Bouira

Bouira, ALG

BTech in Informaion systems and software engineering

Sept 2021

- Graduated with A class
- End of Cycle Project: Build Hadith search engine

Conference

CONFERENCE PROCEEDINGS

Platform (web and mobile application) for a hotelier system

Tarek Berkane, Abdelkader Benaissi

Forum elite and national competencies, 2023, Algiers, Algeria

Adaptive Consistency in Microservices using Machine Learning: Personalizing Consistency for Improved Performance, Scalability and Availability.

Tarek Berkane, Abdelkader Benaissi, Zohra Mahfoud

The First Workshop on Artificial Intelligence (WAI'23), 2023, Bouira, Algeria

Work Experience

University of Bouira

Bouira, Algeria

Internship, System Administrator

February 2023 - Mai 2023

- Server Management: Installing, configuring, and maintaining servers, both physical and virtual, to ensure reliable and uninterrupted operation.
- Network Administration: Managing network configurations, ensuring connectivity, and troubleshooting network-related issues
- Security: Implementing security measures to protect servers and systems from unauthorized access, data breaches, and cyber threats.

Faculty of Science and Applied Sciences

Bouira, Algeria

Project Implementer

April 2021 - Mai 2021

- Collaborated with my supervising professor and partner to develop a Search engine.
- Collect the necessary information
- implement and test our application
- **Technical Skills:** Elasticsearch, Django, DRF, Flutter.
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.

Competitions

Kodikos Competition (third place)

ESI Sidi Bel Abbès, Algeria

Segmenta, Software solution company

Nov 2023

- Third place winner
- Problem: find solution for a company problem>
- Slution: Establishing a software solutions company specializing in providing services to businesses, we offer a suite of four distinct software solutions: paperless systems, business analytics, customer segmentation, and sales forecasting.
- thecnology: Django, Flutter, ML

Smart City Competition (winner)

M'Sila, Algeria

Optimo, Route path optimization

Jun 2023

- First place winner
- Problem: determine the most efficient routes to minimize travel time, fuel costs, and overall operational expenses.
- Slution: Creating a service that calculates the shortest path and optimizes routes based on requirements.
- thecnology: Django, DRF, Flutter, Leaflet, Google map api
- AI (Artificial Intelligence) techniques to tackle the Traveling Salesman Problem (TSP) and optimize routes

Dz english entrepreneurship camp (winner)

Bouira, Algeria

Optimo, Route path optimization

Mai 2023

- First place winner
- This challenge was proposed by Biopharm
- determine the most efficient routes to minimize travel time, fuel costs, and overall operational expenses.

Coding 3.6 (winner)

Batna, Algeria

Optimo, Route path optimization

Dec 2022

- First place winner
- Problem: Searching for a solution to guide new students at the university
- Solution: A social networking platform for students with groups to share their questions and experiences
- thecnology: Django, DRF, Flutter, Elasticsearch

Chargily (winner)

Bouira, Algeria

Chargily library for Django and python

July 2022

- Build library to integrate chargily api with django and python

Projects

CodingDz blog

website

2022

- Inspired from ghosts theme
- Support SEO, real time analytic
- Technology used: Wagtail, Django, Redis, Javascript, Tabler(bootstrap)

CodingDz Courses

website

2022

- Inspired harmash.com
- Arabic website to provide programming courses.
- Support SEO, Real time analytic, Google analytic, third-party commenting platform (Disqus)
- Technology used: Wagtail, Django, Redis, Javascript, Tabler(bootstrap)

University document

website

2022

- A platform to store and search for Previous years exams.
- Technology used: Wagtail, Django, Redis, Javascript, Tailwind, Dropbox

Moadaly

Mobile application

2020-2023

- application that allow you to calculate your pass marks. The app is for computer science student
- Technology used: Flutter
- More than 10K Downloads

Mishkal

Mobile application

2020

- application for forming Arabic texts
- Technology used: Flutter
- More than 50K Downloads

Qutrub

Mobile application

2022

- Qatrub website for the conjugation of Arabic verbs,
- Technology used: Flask

Chargily library

Python library

2022

- Integration of chargily api for Django and Python
- Technology used: Django, Python

Elmouchir scraper

Scraper

2022

- Scraper built to extract enterprise information from elmouchir website
- Technology used: Scrapy

Researchgate scraper

Scraper

2022

- A scraper designed to extract statistics and numbers of research papers contributed by professors at the University of Bouira
- Technology used: Scrapy, Playwright,

Online certificates

Fundamentals of Deep Learning

NVIDIA

2022

- refers to the foundational concepts, theories, and techniques that are essential for understanding and working with deep learning,

DevOps on AWS

Coursera

2023

- AWS Cloud Technical Essentials
- DevOps on AWS: Code, Build, and Test
- DevOps on AWS: Release and Deploy
- DevOps on AWS: Operate and Monitor

Back-End Development

Coursera

2023

- Django web framework / APIs
- Introduction to Databases for Back-End Development
- The Full Stack

Skills

Languages

Python, C, Java, HTML/CSS, JavaScript, Dart.

Frameworks

Django, DRF, Wagtail, Flask, FastAPI, Scrapy, Flutter.

Databases and Search engines

Mysql, Sqlite, Redis, Elasticsearch.

Other tools

Vscode, postman, android studio, pycharm.

Miscellaneous

Linux, Docker, Shell (Bash), \LaTeX (Overleaf), Machine learning, Deep learning, Microsoft Office.

Soft Skills

Time Management, Teamwork, Problem-solving, Documentation and Engaging Presentation.

Software Architecture

- Service-Oriented Architecture (SOA).
- Containerization and Microservices Orchestration.

Languages

English Moderate.

French Moderate.

Arabic Native and language skilled