# Aziz Chebaane
## Software Engineer

A Backend Software Engineer mostly passionate about Cloud Computing & Data processing. Adopts best-practices for engineering with a get-it done on time mindset.

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## EDUCATION

### Masters of Engineering Informatics
**Higher Polytechnic School of Jaén**
2023-actual
- Specialisation in Natural Language Processing LLMs and Data Engineering

### Exchange Student Program
**Escuela Politécnica Superior de Jaén**
**University Of Jaén , España**
End of Bachelor Semester (February–July)
**Keywords**: PyTorch , C++ , Python, ComputerVision , Semantic Search , Character Recognition

### Software Engineering Degree
**Higher Institute of Informatics & Mathematics**
**Monastir , Tunisia**
2020-2023
- First position ranking
**Relevant Coursework**: Java OOP, Web Programming, Mobile Programming, Data Engineering, Linux/Unix processes Programming
- Operating Systems Architecture
- Relational Database Design & SQL
- Software Architecture
-  Artificial Intelligence
- DS and Algorithms.

## TECHNICAL SKILLS

**Software Engineering**
Design Patterns , Object Oriented Design , Distributed Systems and Micro-services , Test-Driven Development, Data Structures and Algorithms

**Programming Languages**
Typescript, Javascript , Python , Java , C/C++ , Golang

**Frontend & Backend Development**
Spring boot , NodeJS ,NestJS, Spring Boot , Golang Gin , Flask , ReactJS , NextJS

**Database**
PostgreSQL , MySQL , MongoDB , Redis, vector database (Pinecone, Qdrant, Weaviate

**Cloud Computing**
Amazon Web Services (AWS) , Google Cloud Computing (GCP) , Load Balancers NGINX

**DevOps**
Git , Github Actions , Azure DevOps , Docker , Docker Swarm

**Data Processing & Machine Learning**
NumPy , Pandas , Keras , PyTorch , Tensorflow , Hadoop ElasticSearch

**Natural Language Processing & LLMs**
NLTK , Spacy , Transformers , BERT , RoBERT , BART

**Computer Vision**
OpenCV, CNN

**OS & Scripting**
Ubuntu , ArchLinux , Shell

# WORK EXPERIENCE

- **Co-Creator of DARI App**
  **02-2023-Actual**

DARI is a an app that opts to give the opportunity to University Students in Tunisia to easily find accommodation and roommates seamlessly and easily.
Adopted by over 200 students and Real Estate providers
The app contains various typical features such as :

- Chatting, Message Encryption ,
- Friend Social Media ,
- Notifications ,
- Content Recommendation System,
- Rating System for both houses and users,
- Reporting System .

Hundreds of downloads & user base
**Official Website** : https://dari.group
**App store Link** : https://apps.apple.com/tn/app/dari-home-mate/id6461645187

**Scalable Infrastructure** : AWS VPC , EC2 Linux Instance, PostgreSQL Database and Backups Shell scripts , Route53 , S3 , Github Actions pipelines , Docker , Docker Swarm
**Tools** : Flutter, Java Spring Boot , NestJS , Python, PostgreSQL, MongoDB Search, Redis Recommendation System: Based on Houses and geographical location of students.

### Backend Software Intern

Proxym Group
**06/2022 - 09/2022**

- Managed to build an agile management platform end-to-end
- Technologies adopted Backend are NestJS(TypeScript) , MySQL , Redis & JWT session management , Docker Containerization, Docker-compose , Elastic Search & Indexing , AWS EC2 , S3 & IAM , Github CI/CD
- Frontend : React , CSS, JS .

### Software Intern

Proxym Group Sousse ; Paris
**07/2021 - 09/2021**

- Agile Project management platform
- Backend adopted NodeJS , MySQL , JWT,Azure CI/CD pipelines, Git & Gitlab
- Frontend : React , CSS, JS .

# PROJECTS

### Bijou

- A flexible in production mobile app that enables sellers of jewelry to registrate sellings transactions with QR code and keeping track of their stock, sellings income and expenses in detailed way from daily , monthly to yearly history inspection.
- Mini ERP with banking exactitude in your tablet and mobile .
- Currently in production in 3 jewellery stores in Tunisia.
- Tool : Java , Spring Boot , JPA , Elastic Search AWS, Github Actions

### REQA

**Real Estate Question Answering System**, geometrically specific in Monastir Tunisia .

- Adopted RAG philosophy
- Constructed a data pipeline that consist of Encoder (BERT) , Retriever (BM25) with a dynamic vector database Pinecone and a Generator model T5.

### meme-red

Bascially , opting to understand Redis Database internal structure and make a light version of it using alternative basic data structure and searching algorithms

- Tool : Golang
- Data structures : Heap , Skip List, AVL Tree
- Unit Testing

### Agile Project Management Platform

- Platform to manage Agile projects with Kanban-table based design.
- Created Frontend with best practices ReactJS.
- Created Backend with NestJS , MySQL , Docker , AWS ,Redis sessions and Cache
- Made sure of Unit & Integration testings alongside with Gitlab pipeline

# LANGUAGES

English
*Full Professional Proficiency*

French
*Bilingual*

German
*Full Professional Proficiency*

Spanish
*Full Professional Proficiency*

Arabic
*Bilingual*