ATKOU DRISS
Software Engineering Student

Contact

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Skills

Data visualization / Analytics
Plotly, Matplotlib , Pandas , Numpy
Image processing: OpenCV, Scikit-image
Machine Learning: Matlab, Scikit-learn
TensorFlow
Programming Languages: Java, C /
C++, Kotlin, Swift, Python, Matlab, Dart
javascript
Embedded systems: Arduino, Raspberryπ
Mobile App Development: Android, iOs, Flutter
Docker, Azure cloud, Google Firebase
Communication, Research, Critical thinking
optimizing workflow, flexibility
Adaptability, Creative problem solving

Certification

- Java programming: Solving problems with software.
- Introduction to Computer Vision and Image Processing
- Microsoft Azure Developer

Languages

✓ Tamazight : Native speaker

✓ Arabic : Native speaker

✓ English : Fluent

✓ French : Intermediate

Interests

- **Sports:** Basket-Ball, Foot-Ball, Fitness
- **Reading topics:** History, philosophy, quantum mechanics, theory of relativity, ancient civilizations, economics, chaos theory, mathematics, theory of evolution.
- **Music :** Jazz , Lo-Fi , Amazigh, Classic

Experiences

JULY 2022 - AUGUST 2022   *Marrakech- Morocco*

AtlantaSanad Insurance | Internship
Accident Management Framework (AtlantaSanad Insurance):
- Contributed to the development of a new framework for accident management.
- Tested and debugged the framework to ensure it met the business requirements and provided feedback on usability.

SEPT 2021 -PRESENT   *Online Freelance*

FIVERR | FREELANCE DEVELOPER
- Developed a native Android app using Java/Kotlin that connects people through messaging, audio, and real-time database integration using Firebase
- Created an Android task management application using Java/Kotlin and SQLite database integration.

Education

2021 - 2024

Engineering degree at the University HASSAN 1, SETTAT Computer science specialized in software engineering

2018 - 2021

University degree in science and techniques at the University HASSAN 1 of SETTAT.
In mathematics, computer science, and physics.

2017 - 2018

High school diploma in physical sciences, Lycée Abdelkarim Elkhattabi, Kelaa M'Gouna, Académie Draa-Tafilalet

Personal projects

- Led a team in building a sophisticated robot car using Arduino:
  - Demonstrated proficiency in hardware and software development.
  - Incorporated innovative features such as soil moisture level detection and plant watering capabilities.
  - Enabled control via an intuitive Android app over Bluetooth and Wi-Fi.
    Google Play URL : *FstsAutoCar*

- Developed a movie guide app named "Moflex" that is published on the Google Play Store. The app uses the themoviedb API for data and integrates Firebase for authentication. It also features a stylish design and cool search features. Google
  Google Play URL : *Moflex*

- Developed an advanced recommendation algorithm for "Moflex" app using machine learning.
  - Leveraged content-based and collaborative filtering techniques.
  - Utilized TensorFlow, Surprise, and scikit-learn libraries for implementation.
  - Personalized movie and series suggestions based on user preferences and viewing history.
  - Enhanced user experience through a powerful recommendation system.

- Showcased creativity and technical proficiency by designing and developing a smart calculator Android/iOs app "Smorty", leveraging TensorFlow Lite and a Kaggle dataset for handwriting equation detection, integrating with a robust calculation engine, and delivering an exceptional user experience.
  GitHub URL : *Smoorty*

- Implemented image compression using DCT transform and RLE techniques in Python and MATLAB, and optimized the algorithm for efficient processing and quality preservation. resulting in a 60% reduction in file size with no perceptible loss in image quality.

- Spearheaded the development of a comprehensive media management framework in Java and MySQL, incorporating advanced features such as metadata extraction, file conversion, and search capabilities, resulting in a streamlined and efficient workflow.

- Demonstrated strong technical acumen and a passion for innovation by visualizing a multi-threaded web application:
  - Utilized Java EE for real-time simulation of air traffic control.
  - Utilized Map API to incorporate advanced features such as dynamic routing, flight status updates, and weather forecasting.
  - Enhancing the end-to-end experience by leveraging machine learning for personalized user interactions and intelligent decision-making.

Technologies used: C/C++, Microsoft SQL Server, Java, MySQL, Python, MATLAB, TensorFlow Lite, Arduino, Java EE, Map/TMDB API, HTML, CSS, JavaScript, ASP.NET, iOS, Swift, Kotlin, Spring Framework, JavaServer Faces, NumPy, Matplotlib, OpenCV, Hibernate ORM, Multi-threading.