# **OMAR** TRKZI
## SOFTWARE ENGINEER

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## PROFESSIONAL EXPERIENCE

### DevFit
#### Software Engineer

Mohammedia (*Remote*)
*September 2023 -  Now*

- Delivering end-to-end web application services to multiple clients, in different industries, mostly in Casablanca, Rabat and Mohammedia. Provided custom solutions using React, or no-code/low-code platforms, ensuring high-quality, responsive interfaces tailored to client needs.
- Working closely with clients to understand their business objectives, delivering scalable and efficient web applications that aligned with their goals.

### Propsion
#### Software Engineer

London, United Kingdom (*Remote*)
*December 2023 -  September 2024*

- Implementing parts of the startup's main product which is a web application for property management, ranging from payment through blockchain to chat bots to report issues to the property owner.
- My tasks were related to implementing **Figma** designs and fixing bugs using **React** & **Material UI**, as well as optimizing requests and communication with the back-end through APIs and Web-sockets through techniques like debouncing, throttling and rate limiting, which lead to reducing latency by 60%. I also occasionally would debug the back-end (Express.js & MongoDB) and the APIs (Postman).

### Oracle
#### Research Assistant

Casablanca, Morocco (*Hybrid*)
*June 2024 -  August 2024*

- Designing new features and fixing bugs for the Oracle Labs automation server and CLI tools, the tools are used by multiple internal teams for automating tasks using different project management tools.
- My tasks consisted in making a fullstack web application using GraalVM (Java) in the backend to authenticate users and call APIs for tools like BitBucket, GitLab & Oracle Data Hub Cloud. In the frontend I used Typescript and Oarcle JET (Javascript Extension Toolkit) with a component-based architecture (similar to React).

### Studio BDouin
#### Frontend Developer

Dubai, United Arab Emirates (*Remote*)
*December 2022 - August 2023*

- Developed and maintained responsive web applications using React, Typescript, SASS, and Tailwind CSS, ensuring cross-browser compatibility and mobile optimization. Collaborated with designers to translate Figma designs into functional, high-performance web pages, enhancing UI/UX.
- Contributed to back-end development by adding and fixing Node.js and Express APIs and improving data handling with DynamoDB, leading to more efficient API calls and faster response times.

**Faculté de Médecine et de Pharmacie d'Agadir**
 Backend Developer

Agadir, Morocco (On site)

*Mars 2022 - August 2022*

- Collaborated with a senior software engineer using the Kanban methodology to design and develop a full-stack Dockerized Symfony web application with MariaDB as a database, automating key administrative tasks and significantly improving efficiency.
- Reduced the task completion time of generating calendars and distributing the student to groups and calendars from 2-3 weeks down to a few minutes with increased accuracy, enabling the administrative staff to streamline their workflow and focus on higher-priority activities.

## PROJECTS

### Space Exploration Dashboard

Developed a full-stack web application using Vite.js and TypeScript, integrating NASA APIs to display Mars Rover Photos and Picture of the Day features. The backend, built with Express.js and deployed on Render, connects to a PostgreSQL database also hosted on Render. The frontend is deployed on Vercel. Implemented automated testing using Jest and managed CI/CD pipelines with GitHub Actions to streamline deployment and ensure code quality.

Project Link: *Space Exploration Dashboard*

### WaterLator Web Application

Built a science-based calculator (Galpin equation) using Vite.js, React, Tailwind CSS, and TypeScript to help users determine optimal water intake during workouts. . Collaborated with two designers to deliver a responsive and visually engaging user interface, enhanced with Airbnb Lottie animations for a dynamic and interactive user experience. I deployed it on Vercel,

Project Link: *WaterLator Web Application*

### Big Data Playground

Developed a full-stack big data application utilizing a wide range of technologies, including Kubernetes (AWS), Apache Spark (SQL/Streaming), Apache Flink, Kafka, and MongoDB. The project involved building infrastructure using Docker and Docker-Compose, and testing batch and streaming jobs locally and on cloud environments. Integrated machine learning components with Apache Spark MLib for real-time data analytics. The project also featured a flight search web application to demonstrate the performance of the data processing pipeline.

GitHub Project Link: *Big Data Playground*

## EDUCATION

### ENSET Mohammedia
2023 - PRESENT

Master's degree in Distributed Systems and Artificial Intelligence

Key subjects; *Distributed Systems, Artificial Intelligence, Machine Learning, Data Analytics, Advanced Algorithms, System Architecture, Big Data*

### Faculté des Sciences d'Agadir
2019 - 2023

Bachelor's degree in Software Engineering

Key subjects; *Web Development, Data Structures, Algorithms, Database Systems, Object-Oriented Programming, Database Systems*

## TECHNICAL SKILLS

**Languages & Frameworks:** Python, Java, TypeScript, JavaScript, React, Next.js, Vite.js, Node.js, Express.js.
**Databases & Data Processing:** PostgreSQL, MariaDB, MongoDB, FireStore (NoSQL),Kafka
**Cloud & DevOps:** AWS, Docker, Kubernetes, CI/CD (GitHub Actions, Vercel, Render), Airflow
**Tools & Other Technologies:** Git, Jest, Ubuntu, Agile Methodologies, No-code/Low-code Platforms

## LANGUAGES

**Arabic: Mastery**
**English : Mastery (TOEFL – July 2020)**
**French : Professional (TCF – December 2018)**
**Chinese : Beginner (HSK II – December 2017)**