



OUAFAE SAIM

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Home: CASABLANCA (Morocco)

ABOUT ME

GIS Engineer | Backend Software Developer

I have 6 years of experience, starting as a GIS Specialist with a strong focus on spatial data analysis, cartography, and automation. Later transitioned into a Technical Support Engineer role, providing expert support for GIS software and drone technologies. Recently completed a Software Engineering course to enhance backend development skills and successfully pivot toward a software engineering career, combining geospatial expertise with robust technical capabilities.

WORK EXPERIENCE

Technical support engineer

Prime Zone Systems [15/12/2019 – 01/09/2023]

City: CASABLANCA | **Country:** Morocco

- Conducted customer training sessions on drone operation, software utilization, and maintenance.
- Analyzed customer needs and issues related to topography and drone hardware from SenseFly, Quantum, NavVis, and Trimble brands.
- Worked closely with end users to identify GIS requirements and troubleshoot technical issues.
- Provided end-to-end customer support, from order processing to technical follow-up.
- Contributed to the company's commercial strategy, including offer development, promotional activities, and market analysis.
- Developed and delivered presentations and reports using spatial-statistical workflows to support commercial decision-making.
- Designed and implemented a data entry system for managing customer invoices and generating statistical visualizations of customer trends over the years.

Domain Expertise:

Topography, Photogrammetry, 3D Modeling, Image Processing

Tools & Software:

Trimble RealWorks, Inpho, eCognition, Pix4D, QGIS, ArcGIS, PosPac, CloudStation, Excel, Google Apps Script, Adobe Premiere Pro, After Effects.

GIS Specialist

AVERDA [06/11/2017 – 14/08/2019]

City: CASABLANCA | **Country:** Morocco

- Provided GIS support to the Engineering and Business departments, spatial data analysis, cartography.
- Managed ArcGIS Online accounts for the Engineering Department.
- Assisted in the review of project drawings, standards, and specifications to ensure accuracy and completeness.
- Developed automated tools and scripts to streamline GIS cartographic and processing tasks using Python.

Tools & Technologies:

ArcGIS Desktop, Model Builder, Python Scripting, PostgreSQL, SQL, Excel/Macros, Google Apps Script.

end-of-study project internship

Royal Center for Space Remote Sensing -CRTS- [31/01/2017 – 29/07/2017]

City: Rabat | Country: Morocco

- Developed a web-based GIS platform for monitoring and diagnosing water resources at the national level.
- Integrated remote sensing data with GIS to enable spatio-temporal analysis of water balance, soil moisture, and irrigation intensity.
- Designed and implemented a solution combining geospatial data processing with interactive web visualization.

Tools & Technologies:

ArcGIS Desktop/Server, SQL Server, API for Flex, ActionScript, JavaScript, XML

PROJECTS

E-commerce Website API

This project aims to build set of RESTful APIs for an e-commerce platform. These APIs will serve as the backend system that enables key functionalities of an e-commerce website, such as managing products, users, orders, payments, and reviews. The APIs will allow clients (such as web or mobile applications) to communicate with the server to perform various actions.

Technologies used :

- **Node.js, Express.js, MongoDB, Mongoose,**
- **JWT:** JSON Web Tokens for user authentication.
- **Bcrypt.js:** For password hashing.
- **Payements:** Stripe.

Link: <https://github.com/ouafcode/Portfolio-Project-E-commerce-RESTful-APIs->

[01/12/2024 – 30/12/2024]

Designed and developed the official website for Arssad Alkhaleej Company using WordPress, ensuring a user-friendly interface and responsive design.

Link: <https://arssadalkhalij.com/>

[10/02/2025 – 10/03/2025]

Designed and developed the official website for Prime Zone Company using WordPress, ensuring a user-friendly interface and responsive design.

Link: <https://primezone.co/>

EDUCATION AND TRAINING

SOFTWARE ENGINEER - BACKEND SPECIALISATION

ALX PROGRAM [14/08/2023 – 10/10/2024]

City: Casablanca | Country: Morocco | Website: <https://www.alxafrica.com/morocco/>

GEOINFORMATION ENGINEER

Sciences and technologies Faculty [09/09/2014 – 27/07/2017]

City: TANGER | Country: Morocco | Website: <http://portail.fstt.ac.ma/>

preparatory class for the engineering school -CPGE-

C.P.G.E Mohammed VI [09/09/2011 – 10/07/2014]

City: Kénitra | Country: Morocco | Website: <https://www.cpge.ac.ma/>

LANGUAGE SKILLS

Mother tongue(s): Arabic

Other language(s):

French

LISTENING B2 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

English

LISTENING B2 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

GIS datasets / GIS database design / Project management

Development Skills

Python / Geoserver / Leaflet / JavaScript / CSS / Html / Git / Google Earth Engine

Database Management Systems

SQL / PostgreSQL / Mongo-DB / Excel

Photogrammetry and remote sensing

Trimble Realworks / PiX4D Mapper

Topography

Autocad / Trimble buisness center

GIS Software

ArcGIS Pro, ArcGIS Enterprise, ArcGIS Destop, ArcGIS Online, ArcGIS Dashboard, / QGIS

Design and infographics

Adobe Illustrator / Adobe After effect / Adobe premiere PRO