

Kyrillos Samer Mousa

Front-End Developer (React.js, Next.js) with GIS Expertise

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Professional Summary

Creative and technically skilled Front-End Developer with a strong foundation in modern JavaScript frameworks (React.js, Next.js) and a specialization in geospatial web applications. Proven ability to design dynamic, user-focused interfaces for complex GIS platforms, integrating real-time spatial data with advanced filtering, symbology, and user interactivity. Combines solid UI/UX development with geospatial expertise to create powerful and intuitive mapping tools for both military and civilian environments.

Education

Cairo University | Faculty of Arts – GIS, Remote Sensing, Surveying | 2019 – 2023
Grade: Very Good | Graduation Project: Geo-Marketing Analytics – Grade: Excellent

Professional Experience

GIS Front-End Developer – Military Survey Administration | 2024 – Present

- Developed GIS-based web applications using React.js, Leaflet, and OpenLayers.
- Built interactive dashboards using M.App Enterprise.
- Designed and implemented a full-featured web portal for military land management with coordinate picking, shapefile uploading, WMS/WFS integration, measurement tools, and filtering capabilities.
- Worked with PostgreSQL and GeoServer for backend geospatial data management.
- Maintained high performance and security standards for all military apps.

Data Collector – Ministry of Transport | March 2024

- Collected and processed spatial data for national infrastructure and urban planning initiatives.

Freelance GIS Specialist

- Developed GIS tools and dashboards including hydrology, network analysis, topology mapping, and contour digitizing for Al-Arish.
- Built custom web applications with dynamic data visualization and reporting features (Excel, PDF).

Highlighted Projects

- Buffer Zone Map Application: Enabled users to interact with data inside customizable buffer areas. Supported radius control, transparency, zoom, and Excel export.
- Spatial Filter & Thematic Mapping: Allowed users to filter map data by date, entity, or ownership. Symbology visualization, table display, and export to PDF included.
- Military Land Management Portal: Created a powerful OpenLayers-based platform for public access. Features include drawing tools, coordinate display, shapefile uploads, WFS/WMS layer integration, measuring tools, and dynamic filtering.
- Ministry Dashboards: Built interactive M.App Enterprise dashboards for government decision-making and analysis.

Technical Skills

Web Development:

- HTML, CSS, SCSS, Tailwind CSS, JavaScript, TypeScript, React.js, Redux, Next.js
- OpenLayers.js, Leaflet.js, Responsive UI Design, Component-based Architecture, REST API Integration
- Python, C++, OOP, Algorithms, Data Structures, Design Patterns

GIS & Remote Sensing:

- ArcGIS Desktop/Pro/Online, QGIS, ERDAS Imagine, ENVI, GeoMedia, M.App Enterprise
- Hydrology, Topology, Contour Digitizing, Network Analysis

Databases:

- PostgreSQL, MS SQL Server, SQLite, MS Access
- SQL Queries, ER Diagrams, RDBMS

Internships

EDGE Pro for Information Systems

- Worked with ERDAS Imagine and GeoMedia for image classification and spatial data processing.

National Authority for Remote Sensing and Space Sciences

- Project: Monitoring Urban Changes in Kafr Shukr, Qalyubia.
- Achievement: Won 2nd place in GIS & RS Surveying Program (2022).

Courses & Certifications

- CS50 & CS50x – Introduction to Computer Science (Harvard)
- Self-Study: C++ Basics, Algorithms, Data Structures, OOP, Design Patterns
- Front-End Development (Route Academy): HTML, CSS, JavaScript, Tailwind, React, Redux, Next.js

- Python Programming (ITI – Mahara Tech)
- Database Fundamentals, PostgreSQL, MS SQL Server (ITI – Mahara Tech)

Languages

Arabic: Native

English: Intermediate (B2)