

Ibrahim Mohammed

Fullstack GIS developer & Cartographer

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Zagazig city, Ash-sharqia, Egypt

18th July 1992

Education:

B.A. In Geography specialty in Cartography

(June 2009 – September 2013)

Faculty of Arts, Department of Geography, University of Zagazig, Egypt

Work Experience:

Freelancer GIS developer & cartographer

(2014 – present)

Remotely & on-site

Portfolio: <https://mapsgeek.pages.dev>

Featured Projects:

Full stack web developer & Cartographer:

- **Maptoolkit**, Cartography consultation, designing and refining vector-tiles basemap services.
- **Clean Land Capital (CLC)**, web spatial analysis dashboard and back office tool for renewable energy business.
- **Realty Dynamics App, LLC**, Dashboard for viewing, exploring and purchasing geospaital data for state of florida.
- **Farcloser Travel**, web application for discovering & booking multi day tours, closing the gap between travelers and operators.
- Indie projects for individuals or one-time collaboration projects:
 - **SafeHome organization**, compiling and story maps designing of the USA crime statistical data.
 - **Adisla retirement center**, Data visualization & cartography for the UN World Humanitarian Summit, using story mapping to emphasize different world problems such as disease, poverty, conflicts.
 - **Florida justice center**, providing data analysis and map production services.

GIS web developer at Island Research & Education Initiative (iREi)

Building the Digital Atlas of Micronesia as a public facing website, as a source of maps and geospatial information for the Federated States of Micronesia. Built hundreds of interactive maps, charts, and datasets related to the natural and human environment of Micronesian islands.

Full stack GIS web developer @NorthSystems

- Sohara sea port & free-zone development project including Esri ArcGIS enterprise on premises installation and development geohub for the port services.
- Ekhtar ardak, ministry of housing & urban planning gateway for land random selection distribution UI/UX design.

Qualifications:

Technical skills

- Mastered proficiency: QGIS and Esri ArcGIS Desktop for GIS operations and geoprocessing.
- Spatial and geostatistical analysis.
- Raster data processing & map algebra.
- PostgreSQL/ PostGIS for spatial databases for vector and raster operations.
- Mapbox studio.
- Vector-tiles implementation and styling specs for designing base-maps.
- ArcGIS Online, Experience builder configuration and data publishing strategies.
- Adobe Illustrator.
- General knowledge of UI/UX design.

Programming skills

Fullstack web development

- React
- NextJS
- TypeScript
- Node.js – Bun runtime
- PostgreSQL
- Svelte
- Go

Open source mapping & Geospatial development

- MaplibreGL - DeckGL
- Ceasumjs
- Tufjs
- PostGIS
- Tippecanoe
- D3
- DuckDB
- Vector-tiles
- GeoArrow – GeoParquet

General skills

- Strong statistical skills and knowledge.
- Deep understanding of theoretical and applied geography concepts both physical and human geography, sociology & history.
- Profession in stock market technical analysis.

Interests

