OFER SHAHAL

Product Management / Technical Product Manager

Tel Aviv-Yafo, Israel | shahalo@gmail.com | +972 50 240 7766 | www.linkedin.com/in/ofer-shahal, Personal portfolio

SUMMARY

Technical product/project manager with experience leading the design and implementation of complex GIS and data-driven systems. Skilled in requirements analysis, system design, Agile development, and API integrations, with experience managing multidisciplinary teams and translating stakeholder needs into technical solutions.

TECHNICAL SKILLS

Programming: Python, SQL

Analytical libraries/tools: Pandas/GeoPandas, NetworkX, OSMnx, NumPy, scikit-learn, LangChain

Visualization libraries/tools: Matplotlib, Seaborn, Plotly, Streamlit, Folium

Data Science and AI Tools: scikit-learn, LangChain, ReAct Agents, Tool-calling, Claude-code, Cursor

Databases & Data Engineering: PostgreSQL/PostGIS, DuckDB, ETL/ELT (dbt), Grafana (for visualizations)

Research methods: Statistical analysis, Machine learning, Agentic AI , Spatial modeling

Spatial analysis & GIS: QGIS, ArcGIS Pro, PostGIS, GDAL, GeoServer, GeoNode, Web-maps

PROFESSIONAL EXPERIENCE

Project & Product Manager — Sivan Design D.S Ltd

2025–Present | Zanzibar, Nigeria, Israel

- Led the end-to-end implementation of World Bank-funded Spatial Data Infrastructure (SDI) Systems projects for the Government of Zanzibar, Tanzania, and the Government of Ogun State, Nigeria.
- Conducted stakeholder and user requirements analysis to guide system design and ensure alignment with operational needs.
- Designed API integrations to enable interoperability and data exchange with external systems
- Led multidisciplinary teams of software developers and GIS specialists, managing development activities using Agile (Scrum) methodology
- Coordinated system deployment, testing, and User Acceptance Testing (UAT) through final delivery
- Maintained client communication, coordinating with multiple stakeholders throughout the project lifecycle.

Data Analyst — Tel Aviv-Yafo Municipality

2022-2025 | Tel Aviv-Yafo

- Analyzed and managed diverse transportation datasets to support decision-making by senior municipal officials.
- Used Python (Pandas, NetworkX, OSMnx, NumPy, etc..) and SQL to automate complex data processing and analytical workflows, including geospatial modeling and statistical analysis.
- Developed dashboards, data visualizations, and maps to communicate urban mobility trends and analytical findings to non-technical stakeholders.

Academic Teaching Assistant — Tel Aviv University

2023-2024 | Department of Geography

- Taught Introduction to GIS and Advanced GIS courses, including preparation of teaching materials, classroom instruction, and development and grading of assignments.

Data Analyst & Researcher — Freelance

2023 | Tel Aviv-Yafo

- Led the programming and analysis of over one million shared e-scooter trip records, examining riders' route preferences, use of cycling infrastructure, and spatial patterns of e-scooter demand (Python & SQL).
- Conducted geospatial research and analysis in collaboration with Motus-Tech and Tel Aviv University.
- Translated research findings into evidence-based policy recommendations for urban micromobility planning and management.

Geospatial Data Analyst — Competition Authority

2021-2022 | Jerusalem

- Applied GIS and spatial network analysis to support economic investigations, examining geographic accessibility, market competition, and spatial relationships (ArcGIS Products & Python).

GIS Operator — Ministry of Environmental Protection

2020-2021 | Jerusalem

- Managed and enhanced GIS data for the Environmental Planning Department (ArcGIS Products)

EDUCATION

M.A. in Geography — Tel Aviv University

2022–2025 | Research-based degree

Thesis Title: *The Impact of Cycling Infrastructure on Shared Dockless E-Scooter Riders' Usage Patterns and Travel Behavior*

Methods & Tools: Computational and quantitative analysis of large-scale urban mobility data (~1 million shared e-scooter trips and ~2 million vehicle status transitions), using Python, GIS, GPS trajectory processing, map-matching, spatial network analysis (NetowrkX, OSMnx), shortest-path algorithms, and statistical analysis.

B.A. in Geography and the Human Environment — Tel Aviv University

2018–2022

Summa Cum Laude (Final grade 96).

PROFESSIONAL CERTIFICATIONS

Data Scientist | 2025-2026
Bar-Ilan University, Center for Designated Programs

Agentic AI Specialist | 2026
Bar-Ilan University, Center for Designated Programs

AWARDS & RECOGNITION

- The Exact Science Faculty Dean's List (2019-2020)
- Selected for the Department of Geography's Excellence Program (2020)
- Best Paper Session — 18th International Conference on Location Based Services (LBS), Ghent, Belgium.
- M.A. Excellence Scholarship, The Exact Science Faculty (2024)

LANGUAGES

Hebrew — Mother Tongue · English — Professional · Portuguese — Good