

# Omid Zanganeh

Lincoln, Nebraska

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## WORK EXPERIENCE

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### Olsson at Lincoln, Nebraska

March 2025-Present

#### GIS Associate Technician – Telecom Engineering and Design

**Supervisor:** Scott Collins | Design Associate | Email: [scollins@olsson.com](mailto:scollins@olsson.com)

- Developed multiple Python and C# desktop applications for deep learning-based object detection, data parsing, and SQL Server data management, improving efficiency across workflows.
- Built a fully automated bore profile generation application, cutting processing time from days to minutes.
- Developed Python scripts and custom ArcGIS Pro geoprocessing toolboxes using Python to automate complex workflows, reducing manual steps by 90%, accelerating fiber network design, improving cost estimation, and supporting strategic market analysis for future expansion and retention for fiber network providers.
- Designed fiber optic network layouts in ArcGIS to optimize routing, reduce build costs, and ensure full coverage.
- Utilized Google AI Studio and Microsoft Azure AI Foundry to develop AI-powered applications for data classification and web grounding for RFP sourcing, cutting processing time from months to hours.
- Nominated for the 2025 Edison Award at Olsson for innovative contributions to workflow automation.

### University of Nebraska at Omaha, Nebraska

January 2024-August 2025

#### Graduate Teaching Assistant-Instructor of Record

**Supervisor:** Dr. Rex Cammack | Department Chair | Email: [rcammack@unomaha.edu](mailto:rcammack@unomaha.edu)

- Taught lab sections in Human-Environment Geography to over 150 students, for three semesters.

### University of Nebraska at Omaha, Nebraska

Jun 2024-August 2025

#### Omaha Spatial Justice Project | GIS Technician

**Supervisor:** Paul Hunt | Email: [phunt@unomaha.edu](mailto:phunt@unomaha.edu)

- Digitized historical land parcels for the Omaha Spatial Justice Project, contributing to urban spatial analysis and revealing patterns of racial exclusion. Reviewed legal documents to extract and organize relevant information, ensuring accurate mapping and data integrity.

### Geomatics College of National Cartographic Center

2014-2016

#### GIS Technician

- Generated detailed maps for urban areas using photogrammetric photos, aiding city planning and development, and contributed to the development and management of a database containing 60 years of aerial photos.

## EDUCATION

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### Master of Science: Geography - Geographic Information Science and Technology

August 2025

University of Nebraska at Omaha, Nebraska

GPA: 4.00

#### Relevant Coursework:

- **Geographic Information Systems I:** ArcGIS Desktop & Pro, Spatial Analysis, Georeferencing, Map Projections, Selections & Queries, Data Editing, Buffering, Overlay & Raster Analysis, Spatial Joins, Summarize, Statistics, Symbology & Labels, Layout Design, Digitizing & Snapping.
- **Geographic Information Systems II:** ArcGIS Pro & Enterprise, SQL, GIS Web Services, Web System Architecture, AWS Cloud, Spatial Data Management, GeoEvent, Web Mapping (ArcGIS Online).
- **Thesis:** Spatiotemporal Analysis of NOx Emissions from U.S. Cement Plants Using TROPOMI Data – Remote Sensing, Temporal & Hotspot Analysis, Environmental Visualization, Population Exposure & Environmental Justice Analysis.

### Bachelor of Science: Geomatics (Surveying) Engineering

August 2016

Geomatics College of National Cartographic Center (GCNCC), Tehran

**Relevant Coursework:** GIS, Applications of GIS, Numerical Mapping and AutoCAD, Fundamentals of Urbanization and Urban Planning, Fundamentals of Remote Sensing, Image Digital Processing, Advanced Software Packages and Applications.

## SKILLS

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#### Coding skills:

- **Python & C#:** Automation, Machine Learning, Visualization, API Integration, Spatial Analysis, UI Development.
- **SQL:** Complex Querying, Data Manipulation, Large Dataset Management, Data Analysis, Spatial Analysis.
- **HTML & JavaScript:** Data Visualization, UI Development, Dynamic Reporting, Interactive Dashboards.

#### Software and Services:

- ArcGIS Pro, ArcGIS Online, ArcGIS Enterprise, ArcGIS Experience Builder, ArcGIS StoryMaps, ArcGIS Survey123, ArcGIS Field Maps, ArcGIS Modelbuilder, SQL Server Manager Studio, QGIS, SNAP, Web Mapping, Google Earth, Google Earth Engine Code Editor, AutoCAD, ENVI, Photomod, Adobe Photoshop, Adobe Illustrator, Tableau, Github Copilot, Smartsheet, Microsoft 365, Microsoft Azure, Microsoft Azure AI Foundry, Google Cloud Services, Google AI Studio.

#### Professional Skills:

- Problem Solving, Agile Methodology, Project Management, Teamwork, Effective Communication, Strategic Planning, Research & Analysis, Rapid Skill Acquisition.

**Language:** English (Fluent), Persian (Native)

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For detailed information on my projects, training, and certifications, please visit my portfolio: [StoryMap](#), [Website](#)