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Naci Dilekli, PhD

Geospatial Data Scientist and Developer



SKILLS

GIS Development

ArcGIS Server, ArcPy, JavaScript, Dojo Framework, .NET

Other Development

Android (Java), Node.js

Data & DB

MS SQL, PostgreSQL, MySQL, ArcSDE, Versioning, XML, JSON, Shapefiles, Enterprise Geodatabases, Various Raster and Vector Formats

Geospatial Analysis

ArcGIS Desktop, ArcGIS Pro, QGIS, GDAL

Data & Statistical Analysis

MATLAB, R, Python, SPSS

Environment Based

Linux, Windows, Virtualization, Cloud e.g. AWS

Software Improvement

Software Troubleshooting, Root Cause Analysis, Performance Optimization

Full Life Cycle Development

Conceptualization, Design, Implementation, Continuous User Involvement and Support

Personal

Grant Writing, Creative, Driven, Organized, Multitasking, Evidence, Planning, Detail and Results Oriented

Interpersonal

Project Administration and Leadership, Educator, Adaptability, Flexibility, Small and Large Teams






Languages

Turkish (Native), English (Advanced), Spanish (Conversational)




SUMMARY

- T-Shaped skillset with deep expertise and experience in geospatial problem solving with specialized skills in databases, visualization, analytics and programming.
- Versatile full stack developer with abundant full software life cycle experience.
- Broad expertise across several thematic research domains including geospatial statistics, mesoscale economics, energy, natural resources, urban growth modeling and health.
- Experience in working in small to large teams with international, diverse and multidisciplinary environments.

RECENT EXPERIENCE

- Feb 2016 - Present  **GIS Developer II & Research Scientist** **University of Oklahoma**
- ▽ Managed and interacted with multiple clients while conducting research.
 - ▽ Developed six Web GIS applications with vastly different functionalities for assisting decision making using large vector, raster and non-spatial datasets
 - ▽ Integrated Braintree payments system to an ArcGIS Web application
 - ▽ Extended the existing ArcGIS API to accommodate custom needs
 - ▽ Wrote Python scripts for spatial task automation and big data processing for large scientific and professional projects.
 - ▽ Prepared and won a grant from OCAST for analyzing environmental exposures and cancer among other academic grants.
 - ▽ Analyzed multitude of data using ArcGIS Suite and Python for research purposes; published academic papers.
- Feb 2015 - Jun 2015  **Visiting Professor** **Izmir Institute of Technology**
- ▽ Instructed two classes related to urban planning, utilization of geospatial technologies, and disaster management.
- Mar 2012 - Dec 2014  **Postdoctoral Research Associate** **Rensselaer Polytechnic Institute**
- ▽ As an NSF Grant recipient, used the historical national and international input-output accounts data, high resolution technology information and environmental data in economic analyses.
 - ▽ Extended the existing economic linear optimization algorithms and published scholarly papers on natural resources and economics.
- Aug 2010 - Aug 2011  **Senior Scientist** **Geospatial Applied Research Experts House**
- ▽ Principal developer of the national award-winning Cancer Awareness GIS tool, organized by the National Cancer Institute for fusing, analyzing, and reporting data and maps pertaining to cancer at the county and state levels.
 - ▽ Developed grant applications and training materials.
- May 2007 - Aug 2010  **Graduate Research Assistant** **University of Oklahoma**
- ▽ Utilized Python for ArcGIS for processing large sets of data into useful formats, a process that would be otherwise inordinately laborious.
 - ▽ Developed three Web GIS applications (using the .NET, Flex and Silverlight APIs) and a non-spatial website (LAMP stack) for asset management and decision making.

EDUCATION

- Aug 2010  PhD in Geography **University of Oklahoma**
- July 2005  MSc in Information Systems **Middle East Technical University (METU)**
- Jun 2004  MSc in Geodetic and Geographic Information Technologies **METU**
- Jun 2002  Bachelor's in City and Regional Planning **METU**