

BURHAN SOZER

Senior Software Engineer | GIS | MSc x2

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PROFESSIONAL SUMMARY

Senior Software Engineer with 6+ years of hands-on experience building and maintaining web-based and full-stack applications across defence, government, and energy sectors, with deep specialization in GIS. Now operating independently through my own company, delivering B2B and contract software engineering services to international clients, from full-stack web development to specialized geospatial solutions. Previously contributed to NATO's Air Command and Control Information System (AirC2IS) at Atos. Holds dual Master's degrees in Software Engineering and Geomatics Engineering. Recognized with the Atos Accolade Award for outstanding performance.

SKILLS

GIS Technologies: ArcGIS Enterprise, ArcGIS Pro, ArcGIS JS SDK, PostGIS, OpenLayers, QGIS, GeoServer, WMS, WFS, SLD, OGC Standards, Cloud GIS, CesiumJS

Frontend: Angular, React, TypeScript, JavaScript

Backend: C#, .NET Core, Python, Node.js

Database: PostgreSQL, MSSQL Server

DevOps and Tools: Docker, Git, REST API, Postman, VS Code, CI/CD

Practices: Agile, Clean Code, Design Patterns, Microservices, Object-Oriented Design

Languages: Turkish (Native), English (Full Professional, IELTS 6.5), German (Elementary)

PROFESSIONAL EXPERIENCE

Independent Software Consultant

Self-employed (own company) | Ankara, Turkey / Remote | June 2026 - Present

- Providing B2B and contract software engineering services to international clients, covering full-stack web development as well as specialized GIS solutions.
- Building web applications and backend services end-to-end using React, Angular, Python, .NET, Node.js, and PostgreSQL, including REST API design, data modeling, and cloud deployment.
- Delivering geospatial capabilities where needed: interactive map interfaces, spatial data processing, and editing and visualization of GIS data on the web with PostGIS and modern mapping libraries.

Software Engineer

Atos | Ankara, Turkey | October 2022 - June 2026

- Developed and maintained web-based GIS modules for NATO's Air Command and Control Information System (AirC2IS), supporting multi-national defence operations across NATO member states.
- Authored the AirC2IS Symbology Technology Change Proposal, evaluating architectural improvements for geospatial symbology rendering.
- Enhanced application performance, usability, and compliance with NATO interoperability standards.
- Awarded the Atos Accolade Award for exceptional contribution and delivery quality.

Full Stack Developer

GEOSYS GIS and Consultancy Services | Ankara, Turkey | March 2022 - September 2022

- Built and improved web-based GIS applications for consultancy and government clients.
- Contributed to MCBS and NEFES projects, delivering reliable geospatial capabilities for end users.
- Implemented geospatial data processing pipelines and interactive mapping features using Angular, C#, and PostGIS.

Software Developer

BELSYS | Ankara, Turkey | April 2021 - February 2022

- Developed and maintained Webtapu, Turkey's national web-based land registry GIS platform.
- Delivered geospatial solutions for EUAS (Electricity Generation Company), supporting energy infrastructure mapping and analysis.

Software GIS Developer

OdakGIS | Ankara, Turkey | July 2020 - April 2021

- Built and enhanced web-based GIS applications including TADLAB and TedPORTAL projects.
- Implemented map services, spatial queries, and interactive data visualization features.

Research Scholar (YOK 100/2000 PhD Scholarship)

Hacettepe University | Ankara, Turkey | February 2020 - September 2020

- Processed and analyzed LiDAR point clouds and satellite imagery for academic research.
- Generated orthophotos, Digital Elevation Models (DEM), Digital Surface Models (DSM), and Canopy Height Models (CHM).
- Produced land-use and land-cover classification maps using machine learning methods.

Geomatics Engineer Intern

Korfez Haritacilik Planlama Ltd. | Ankara, Turkey | June 2017 - September 2017

- Processed aerial photography, defined tie points, and generated high-accuracy orthophotos.

EDUCATION

Master of Science, Software Engineering

Hacettepe University | Ankara, Turkey | 2023 - 2024

Master of Science, Geomatics Engineering

Hacettepe University | Ankara, Turkey | 2018 - 2020

Bachelor of Science, Geomatics Engineering

Erciyes University | Kayseri, Turkey | 2011 - 2016

CERTIFICATIONS

- IELTS Academic - Score 6.5 | IDP
- telc Deutsch A2 | German Language Certificate

PUBLICATIONS

- Sozer, B. et al. - Preliminary Investigations on Flood Susceptibility Mapping in Ankara (Turkey) Using Modified Analytical Hierarchy Process (M-AHP).
- Sozer, B. et al. - Ankara İcin Taskin Duyarlilik Haritasi Uretimi.

AWARDS

- Atos Accolade Award - Recognized for outstanding project delivery and performance.
- Second Best Poster Presentation - Academic research poster award.