Suad Arzimanlı

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Professional Summary: Full-Stack GIS Software Developer with hands-on experience in building geospatial and asset management solutions for public infrastructure systems. Proficient in C#, .NET (MVC, Windows Forms), JavaScript, HTML, CSS, and ArcGIS technologies including ArcGIS Pro, ArcMap, and Experience Builder. Specialized in enterprise workflow automation, geodatabase architecture, and integrating API-driven solutions for infrastructure operations.

Extensive experience working with Cityworks to streamline field workflows, automate service requests (311, pothole systems), and deliver applications for departments such as Tree Management and DOT/Highway services. Skilled in SQL and Python for spatial data analysis, data quality assurance, and scripting geospatial processes.

Strong background in GIS analysis, ESRI system implementation, and asset data integration. Proven ability to deliver full-cycle solutions from backend logic to interactive map interfaces supporting data-driven decision-making in government and infrastructure environments.

Skills & Qualifications:

Programming & Development:

- **C# / .NET (MVC & Windows Forms)** – Extensive experience automating enterprise workflows and building full-stack applications for infrastructure services using .NET technologies.
- **JavaScript, HTML5, CSS3** – Proficient in developing dynamic, interactive web interfaces with a strong focus on geospatial functionality and responsive design.
- **Python Scripting** – Used for geospatial data processing, task automation, and quality assurance in GIS workflows.
- **SQL** – Skilled in writing queries for spatial and non-spatial data, supporting asset management databases, and maintaining geodatabase integrity.

GIS & Mapping Systems:

- **ArcGIS Pro / ArcMap / ArcGIS Online** – Hands-on experience with map authoring, spatial analysis, data visualization, and map layer management.
- **ArcGIS Experience Builder** – Developed custom widgets and map-driven applications to enhance user interactivity and deliver insights through tailored web apps.
- **Google Maps API** – Integrated complex functionality such as custom markers, zoom-level logic, geofencing, info windows, polygons, and Place Search.
- **ESRI Systems** – Deep familiarity with the ESRI platform, including data formats, projection systems, and enterprise geospatial deployments.
- **Geodatabase Architecture & Management** – Designed and maintained GIS databases for multiple city infrastructure departments with data validation and structure optimization.

Asset Management & Workflow Automation:

- **Cityworks AMS** – Developed, configured, and automated workflows in Cityworks for DOT/Highway units, Tree Management, and 311/Pothole applications.
- **Tree Management & 311 Systems** – Built and supported applications handling tree inspection, planting, and service request tracking.
- **Infrastructure Workflow Programming** – Streamlined public works and service request processes across multiple departments using backend automation and frontend integration.

API & System Integration:

- **Postman / REST API** – Built and tested custom endpoints, integrated external systems into .NET applications, and handled JSON-based data flow between services.
- **Siebel Integration (311)** – Linked geospatial service requests and asset data with Siebel CRM systems through API and custom middleware logic.
- **Service-Oriented Architecture** – Designed modular systems where frontend tools communicate seamlessly with backend services across infrastructure platforms.

Data Analysis & Quality Control:

- **Geospatial Data Analysis** – Performed spatial queries, clustering, buffer analysis, and map-based reporting to support decision-making in municipal operations.
- **Data Quality & Validation** – Maintained high data accuracy standards for public asset records, field data collection, and geodatabase synchronization.
- **Visualization & Reporting** – Delivered visual tools that provide real-time insights on asset status, maintenance, and service distribution patterns.

System Design & Application Structure:

- **Modular Architecture** – Organized codebases into logical, reusable modules for scalability and maintainability.
- **Event-Driven Logic** – Built responsive interfaces that react to user input, map interactions, and system events.
- **Full-Cycle Application Development** – From UI/UX planning to backend logic, database integration, and deployment within enterprise environments.

Technologies:

- C#, ASP.NET Core MVC (.NET 6/7/8), ASP.NET Core Web API, Entity Framework Core, JavaScript, HTML/CSS, Python, SQL Server, Windows Forms
- ArcGIS Pro, ArcMap, ArcGIS Experience Builder, Google Maps API, Cityworks AMS,
- Postman, Visual Studio, Microsoft Office Tools

EDUCATION:

- **Bachelor of Science in Mathematics and Computer Science**
  University of Łódź, Poland
  October 2021 – July 2025

  - Final-year thesis involves building a web-based GIS system for conflict prediction and asset management: "**Application using Geospatial Intelligence (GEOINT) to map and analyze geographic data**".
  - Full-time studies conducted in English.

- **Masters of Science in Mathematics and Computer Science**
  University of Łódź, Poland
  2025 – present

EXPERIENCE:

Full-Stack .NET & GIS Developer
DZ CIS LLC – Washington, DC (Remote)
2023 – 2025

- Developed full-stack enterprise applications for geospatial asset management, including a dynamic web interface integrating **Google Maps API**, **.NET MVC**, and **ArcGIS services** to support public infrastructure operations (Tree Management, 311/Pothole Systems, DOT Services).
- Engineered highly interactive, map-driven tools featuring **custom marker handling**, **clustering**, **radius-based filtering**, **dynamic overlays**, and **location-based search**.
- Automated and optimized workflows within **Cityworks AMS**, building API-integrated systems for **service request creation**, **inspection processing**, and **fieldwork coordination**.
- Integrated **RESTful services** using **Postman**, enabling seamless communication between asset systems, **Siebel 311**, **ArcGIS Feature Services**, and internal databases.
- Delivered custom geospatial solutions using **ArcGIS Experience Builder**, **ArcGIS Pro**, and **ArcMap**, supporting advanced **spatial analysis**, **data visualization**, and field-based decision-making.
- Designed, built, and maintained enterprise **geodatabases**, ensuring **data integrity**, **schema consistency**, and readiness for operational use across departments.
- Developed **modular, scalable backend logic** in **C#/.NET**, implementing asynchronous operations and structured controller logic for system performance.
- Conducted **geospatial analysis**, **spatial queries**, and **QA/QC validation** using **SQL** and **Python scripting**, supporting real-time decision-making and operational efficiency.
- Created **technical documentation**, **workflow diagrams**, and **user guides** to support system delivery, onboarding, and long-term maintenance.
- Generated **technical reports** and **presentations** for stakeholders, promoting transparency, compliance, and clear communication with non-technical audiences.

- Contributed actively in an **Agile/Scrum** development environment, participating in sprint planning, daily stand-ups, and iterative delivery aligned with **Adaptive Software Development (ASD)** practices.
- Delivered work under a **Time and Materials contract model** based on Agile principles, prioritizing flexibility, stakeholder collaboration, and continuous value delivery.
- Worked both **independently and collaboratively**, successfully delivering tasks solo as well as through coordinated teamwork in a **remote, cross-functional environment**.
- Participated in **internal training**, **process improvement initiatives**, and **knowledge sharing** activities to upskill peers, support onboarding, and increase team efficiency.
- Took initiative beyond assigned tasks, supporting team members, resolving blockers, and contributing to the long-term success of Cityworks and GIS-based projects.

Language skills:

- **Azerbaijani** – Native
- **Turkish** – Native
- **English** – Professional (C1/C2)
- **German** – Intermediate (A2–B1)