Rahul Kumar

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Linkedin | GitHub

SR. GIS Developer

Experienced GIS Developer with over 8 years of expertise in developing and managing geospatial solutions using both ArcGIS Enterprise (Portal, Server, Desktop) and open-source technologies. Proficient in building scalable, web-based GIS applications using JavaScript, ASP.NET, and Python. Skilled in configuring and customizing platforms such as GeoServer, Leaflet, and OpenLayers to Show Spatial data. Strong background in integrating spatial workflows, optimizing map services, and delivering robust, user-focused GIS solutions.

Technical Skills

GIS Tools	:	ArcGIS Server & Portal, ArcMap & ArcGIS Pro, ArcGIS Web AppBuilder, ArcGIS JavaScript API (3.x / 4.x), ArcPy scripting.
Languages	:	JavaScript, TypeScript, Python, C Sharp.
Frameworks	:	Node.js, Express.js, Angular, ASP.NET Core.
Databases	:	PostgreSQL, MongoDB, Elastic Search.
Dev Tools	:	Visual Studio Code, Git, SVN.

Experience

MPSeDC, Bhopal   March 2025 – Till Now
Desktop Developer

- Designed and developed a Windows desktop application and Api for the NAKSHA Portal (Department of Land Resources -Central Government) to upload khasra data and TPK image files of survey areas.
  Technologies used and learning - .Net Core, ArcGIS Maps SDK for .NET, ArcGIS Server & Portal, PostgreSQL

Ceinsys Tech Limited (Client Side - MPSeDC), Bhopal   Jul 2022 - March 2025
Senior Executive – GIS Developer

- Developed the GIS application (MPGeo) for Geoportal of Madhya Pradesh
  Technologies used and learning - Angular, Leaflet, Turfjs, .Net Core 6, Postgres

- The MLA Feedback application has been developed specifically for MLAs. It allows MLAs to access information about government properties and ongoing projects within their MLA area.
  Technologies used and learning - Leaflet, .Net Core 6, Postgres

- Worked on the GIS modules of the Sampada 2.0 application (E-Registry of Property).
  1. Merge, Clip and Modify of guideline Boundary By Registrar.
  2. Obtain property details by either clicking on the map or searching for the address.
  3. Designed and developed an analytical module that enables map classification using various parameters (with range-wise color coding) to analyze the expected percentage increase in guideline rates for the following year.
  4. Designed and developed a Spring Boot-based middleware that interfaces between the web application and GeoServer, securing GeoServer from public and unauthorized access while managing encryption and decryption of WFS service data.

- Worked on the GIS module (5G) in Gaati Shakti Sanchar Portal (For Only Madhya Pradesh).

TCS - Tata Consultancy Services, WFH   Feb 2022 - jul 2022
IT Analyst

- Worked as Technical Support for GIS Application of Western Power (Australia).
  Technologies - ArcMap, ArcFM, Geocortex.

Larsen & Toubro Infotech, New Delhi   Feb 2020 - Jan 2022
Software Engineer
- Developed GIS modules featuring multiple data analytics widgets using Web AppBuilder for the MIIP (MOSPI Integrated Information Platform) project.
  Technologies used and learning - JavaScript, ArcGIS JavaScript API, ArcGIS Server & Portal, Web AppBuilder, Tomcat web server.
- Host the application in Tomcat web server using war file.
- Create Python Scripts (ArcPy) for custom Print Map (PDF format).

GMDA - Gurugram Metropolitan Development Authority, Gurugram   Jun 2017 - Jan 2020
Project Assistant as a Developer
- Developed OneMap Gurugram - A GIS-based portal for the Government Authority,enabling urban planning, geospatial data visualization, and citizen engagement.
  Technologies used and learning - JavaScript, ArcGIS JavaScript API, ArcGIS Server & Portal, PostgreSQL
- Developed Land Record Information System for ease of doing business, Haryana Govt.
  Technologies used and learning - JavaScript, ArcGIS JavaScript API, ArcGIS Server & Portal, PostgreSQL
- Developed various customize widget in WebApp Builder Web Application using ArcGIS JS API.
- GIS Based Survey using Arc Collector.

Education

Central University of South Bihar, Patna (Bihar)   Jun 2015 – July 2017
 Master of Science in Computer Science - 6.89 CGPA

Ranchi College, Ranchi (Jharkhand)   April 2011 - Aug 2014
 Bachelor of Science in Information Technology - 72.44%

Internships

- **TCSiON:** DigitalOnlineexaminationassessmenttraining at TCS iON(OneMonth,2016). Learning-JavaScript, HTML, CSS
- Six Month Semester Training at Harayana Space Application Centre (HARSAC), Gurugram Node (January 2017 to May 2017)
    - **Project Guide -** Dr. Sultan Singh (Director, HARSAC).
    - **Project Name -** GIS Web Application for Location Information by Crowed Sourcing.
    - **Project Description -** develop a Location Information System.
    - **Web Technology Used -** JavaScript, API for google map, MySQL, PHP, jQuery

Certificates & Awards

- ESRI User Conference 2018 Certificate (2 Days).
- Honored with the **Chief Minister's (MP) Award** for the successful development and launch of the Sampada application..