

Rajnish Kumar Kushwaha

Senior Full Stack Engineer | GIS, Geospatial Web Applications, and AI-enabled Product Development

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Professional Summary

Senior Full Stack Engineer with 4+ years of experience building scalable web applications, GIS platforms, and data-driven products. Strong background in geospatial systems, map-based analytics, and full stack development across frontend, backend, APIs, and cloud infrastructure. Experienced in renewable energy and utility-domain products, with hands-on work in React, JavaScript, Python, Node.js, Postgres, PostGIS, Kubernetes, and mapping technologies such as Mapbox, OpenLayers, and GeoServer. Currently focused on building AI-enabled products and expanding into AI agents and intelligent workflow systems.

Professional Experience

Senior Full Stack Engineer

Mar 2025 – Present

Cleantech Industry Resources, Chennai, Tamil Nadu

- Lead the design and development of a GIS web application used for due diligence workflows in renewable energy projects.
- Own product and engineering delivery for a geospatial platform that helps teams visualize and analyze location-based project data.
- Built AI-enabled mapping workflows to support spatial analysis and decision-making.
- Integrated Mapbox, PostGIS, and GeoServer to provide real-time geospatial insights and interactive map experiences.
- Contribute across frontend, backend, APIs, and product architecture for internal and business-facing workflows.

Full Stack GIS Web Developer

Feb 2022 – Mar 2025

Tata Consultancy Services (TCS), Kolkata, India

- Developed web applications for electric network visualization and map-based analysis using GE Smallworld and web GIS technologies.
- Built and enhanced geospatial web tools using JavaScript, OpenLayers, jQuery, Node.js, and Kubernetes.
- Developed a KML-to-GeoJSON converter with support for extracting KML attributes for downstream use in mapping systems.
- Built a web server log monitoring solution using Kibana, Elasticsearch, and Fluent Bit.
- Improved asset and web search performance and contributed to enhancements of existing internal tools and workflows.

Personal Projects

JalKrishi

Mar 2026 – Present

jalkrishi.krrajnish.com

- Building a platform aimed at helping fish farmers with practical digital workflows and tools.

SolarIQ

solariq.krrajnish.com

- Developed a web platform to help users explore solar suitability and related insights for residential properties in the USA.

Geofy

geofy-ff511.web.app

- Built a GIS data collection, maintenance, and visualization solution across web and mobile platforms.

WhatsApp and Telegram Chat Bot for Business

- Built an automated business chatbot for handling customer queries using Dialogflow and AutoReply.

Smart Attendance App

- Developed a QR-code-based attendance application using Google Apps Script as the API layer and Google Sheets as the database.

Education

Master of Computer Applications (MCA) 2022 – 2024
Chandigarh University | CGPA: 6.95
Bachelor of Computer Applications (BCA) 2018 – 2021
Institute of Management & Technology, Faridabad | 70.7%

Technical Skills

Programming: JavaScript, Python, HTML, CSS, Node.js
Frontend and Mapping: React, Mapbox, OpenLayers, Google Maps
Backend and APIs: FastAPI, Firebase
Databases: Postgres, PostGIS, SQL, NoSQL, Redis
Infrastructure and DevOps: Docker, Kubernetes, Nginx, CI/CD, Linux, AWS, GCP
Domain Expertise: GIS, geospatial web applications, open-source GIS, map-based analytics, utility and renewable energy workflows

Languages

English, Professional Working Proficiency
Hindi, Native or Bilingual Proficiency