Pavankumar Suryawanshi

GIS Developer

✉ Pavansuryawanshi475@gmail.com 📞 +917057841107 in Pavankumar Suryawanshi 🔗 Portfolio

SKILLS

Frontend / Web-Design: — ReactJS, TypeScript, JavaScript, HTML, CSS, jQuery, **Backend Development:** — Python (FastAPI), REST API Design & Integration, **Database Management:** — PostgreSQL, PostGIS, **Geospatial Technologies:** — GeoServer, QGIS, ArcGIS Pro, Mapbox, OpenLayers, **Cloud & Deployment:** — AWS (EC2, RDS, S3, Cloud Deployment & Architecture), Docker, **Analytical & Programming Skills:** — Spatial Data Analysis, Spatial Data Visualization, Raster Processing (GDAL, rasterio), Python Automation

WORK EXPERIENCE

GIS Developer   May 2025 – Present
StoryPeach Technologies Private Limited (TreeStock)   Remote (Sheffield, UK)
  - Sole developer building the **TreeStock Product**, a geospatial platform for urban forestry surveys and visualization.
  - Architected and developed the full stack using **React (TypeScript)** for frontend, **FastAPI** for backend, **PostgreSQL + PostGIS** for spatial database management, and **GeoServer** for spatial data publishing.
  - Deployed cloud infrastructure on **AWS** (EC2, RDS, S3), to ensure scalability, performance, and availability of geospatial services.
  - Implemented advanced raster clipping and tree feature rendering, visualizing survey-based forestry datasets from drone teams.

Junior GIS Developer   Dec 2022 – Apr 2025
RSI Softech India Pvt. Ltd.   Hyderabad, India
  - Built GIS web applications using **React.js** and **ArcGIS Experience Builder**, creating interactive and analytical user experiences.
  - Worked extensively with **ArcGIS Pro** for map creation, geoprocessing, and advanced spatial analysis.
  - Contributed to environmental monitoring dashboard projects, integrating analytical visualization and geospatial analytics.

PROJECTS

TreeStock Product   May 2025 – Present
Technologies: React (TypeScript), FastAPI, PostgreSQL/PostGIS, GeoServer, AWS
  - Developed a **comprehensive urban forestry survey and visualization platform** for environmental monitoring.
  - Visualizes drone-collected survey data, including tree species, root protection areas, and trunk parameters.
  - Designed backend APIs for raster processing, survey data management, and visualization logic.
  - Built on a **cloud-native architecture** deployed through **AWS EC2**, **RDS**, and **S3**, supporting scalable operations.
  - Currently leading product evolution toward **automated ML-based survey generation** workflows.

Geospatial Technology Project: Jan 2024 – Nov 2024
Municipal Tenancy Web Application Enhancement:

  - Developed a versatile tenancy application for web and mobile platforms, featuring robust search capabilities by area and rental value, ensuring a seamless user experience across devices.
  - Led the development of the mobile version, optimizing UI for smaller screens and integrating map functionality for intuitive area selection, enhancing user engagement and overall experience.

Real-Time Data Visualization with Apache ECharts" 🔗   Jul 2023 – Dec 2023
  - Developed and maintained the Employee Visit Dashboard chart component using Apache ECharts to provide real-time insights into employee visits.

CERTIFICATES

AWS Cloud Practitioner Essentials 🔗 — Completed August 30, 2025 │ **AWS Technical Essentials** 🔗 — Completed August 15, 2025

EDUCATION

M.Sc. Geoinformatics,
Symbiosis Institute of Geoinformatics
2021 – 2023 | Pune, India
  CGPA - 6.92