

Ayushman Srivastava

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Objective

I'm an experienced Python developer proficient in Django, Postgres, and GIS. With 2.8 years of hands-on experience, I specialize in creating robust, scalable web applications. I excel in streamlining backend operations, crafting frontend features, and constructing RESTful APIs. I'm eager to join a forward-thinking team where I can collaborate with talented peers, further my learning, and deliver top-notch software solutions that propel business growth.

Skills

Python Django Postgresql Javascript JQuery Rest API Web API Qgis Geoserver
Openlayers Leaflet js Gdal Geopandas Rasterstats ORM Apache Airflow GIS

Experience

- **RMSI PVT LTD** Dec -2021 - Present
Software Developer
 - Transitioned from trainee to full time software developer at RMSI,accumulating 2.8 years of over all experience.
 - Specialized in developing web and GIS based web applications using Django, PostgreSQL, JavaScript, Geoserver and Django Rest Framework.
 - Designed, developed, and maintained interactive web applications with GIS (Openlayers,Leaflet js and geoserver) integration,delivering high-performance mapping and spatial data analysis capabilities.
 - Created and consumed RESTful APIs to facilitate communication between the frontend and backend systems, ensuring efficient data flow and processing.
 - Participated in code reviews, unit testing, and continuous integration to maintain code quality and application stability.
 - Mentored junior developers, providing guidance on best practices in Django, Python and PostgreSQL.
 - Engaged in regular project meetings with stakeholders to ensure alignment with business goal and to gather feedback for continuous improvement.
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Projects

- **Risk Information System, World Bank Project (08/2021 - present)**
About: Web-Based software developed named Integrated Operational Forecasting System for the Andhra Pradesh which integrates the hazard and exposure outputs namely for Cyclone, flood, and drought, and so on.
Role:
 - Processed and analyse GIS data using Python, R, & PostgreSQL/PostGIS.
 - Automated process for analyse different GIS format data (.netCDF, dat, grib, HDF5 and more) and create Map using Python, Matplotlib and Mathematical concepts.
 - Automate the Flood Models using Python and DotNet.
 - Handled Big Data for Risk Assessment of various hazards for numerous exposures in Database.
 - Developed Real-Time Cyclone Modelling application for Andhra Pradesh state which performs hazard

determination (comprising Wind, Flood, and Surge) and their respective Loss Assessment that helps the state

disaster administrators to prevent loss of life and damage to property through advisories.

- **Development of Decision Support System for Irrigation Scheduling, NRSC (ISRO) (12/2023 - Present)**

About: Develop a Decision Support and Information System for Irrigation Scheduling and Performance Assessment which

gives information for assisting the command area authorities in irrigation decision-making.

Role:

- Led a team in gathering requirements at client sites to understand the project requirement.
- Automate the machine learning model for crop classification, leveraging satellite imagery and ground truth data.
- Conducted extensive analysis of satellite data to derive insights into crop health and yield prediction.
- Designed and implemented a robust data pipeline in Apache Airflow to automate data ingestion, preprocessing, model training, and deployment processes.

- **SIREN (11/2022 – 01/2024)**

About: Web-Based Software developed helps visualize the impact of incoming hazards at your critical locations with an advance lead time of 3 days.

Role:

- Design robust and scalable Web based application on the Django Framework.
 - Design and developed the postgres database with postgis extension for the web application.
 - Developed the Automation process for analyzing the Impact forecasting on the particular location and populate the data to the tool database.
 - Analyzed system requirements specifications and also in client interaction during requirements specifications.
 - Prepared the interactive charts in the Application using the AmChart JavaScript library.
 - Scheduling tasks on windows task scheduler to run the Python scripts to generate reports for frequent interval of times and also send impact forecasting email alerts to client.
 - Developed custom tags to simplify the template code. Designed UI screens using templates, Ajax, Html, and JSon.
- Used JavaScript for client side validation.

Languages

- English
- Hindi

Education

- Master of Computer application (MCA) 2020-2022
- **VBSPU,Jaunpur** 2017-2020
Bachelor of science (Maths)
- **UP board** 2015-2017
12th(senior secondary)