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✉ *arsh3doda@gmail.com*

Skills

Primary:

- **GIS | 8 years**
- **Python | 8 years**
- **Django | 7 years**
- **AWS | 4 years**
- **FastApi | 2 year**

Secondary:

- **ReactJs | 4 years**
- **Kotlin | 4 years**
- **Postgresql | 4 year**
- **SqlAlchemy | 3 years**

Other:

- **Linux | 3 years**
- **Openlayers | 2 years**
- **Celery | 2 years**
- **Redis | 1 year**

Academic History

IIRS, ISRO, Dehradun:

M-Tech | August 2014 - August 2016
- RS and GIS with specialization in Geoinformatics.

GNDU, Amritsar:

B-Tech | April 2009 - April 2013
- Urban and Reginal Planning

Achievements

Awards and MOUs:

- Youth Icon award for Digital Empowerment.
- Signed MOU with Punjab Police for GIS Consultancy

Arsh Doda

Backend Developer | GIS

Professional Goals

Looking for a position in a company, where I can apply and improve my technical skills.

Work Experience

Senior Backend Engineer:

Presto | Jan 2023 - Nov-2023
- Integrate new POS systems for US customers based on their requirement.
- Implment custom ORM at DB layer.
- Fix bugs and improve logic to optimize the code.

Senior Project Associate:

WRI India | April 2021 - Dec 2022
- Co-ordinate and partner with teams to assess and understand project needs, and scope requirements and lead execution ensuring timely delivery.
- Oversee and provide mentorship to the analytics team on geospatial analyses and spatial modelling across domains.
- Conduct data exploration, and quantitative research and provide customized analytical solutions and insights to meet project requirements
- Manage and maintain AWS servers.

Senior Backend Developer:

Antef | Oct 2016 - March 2021
- Lead the development of GIS-based Web and mobile applications and assist in the implementation of technology.
- Develop the backend system for the applications and optimize the database.
- Interact with the customers for their reviews and incorporate the technology changes.

Transport Planner:

IRTE | July 2013 - July 2014
- Lead the process of Journey risk management.
- Automate the compilation using tools and coding.

Tool/Platform Development

Geodit – One stop Solution to all your GIS surveys

About: A survey platform under Startup India to ease and automate field data collection using shapefiles. The tool helps customers to save costs and time on surveys. The platform provides the ability to download the output in shapefile and excel format as well as geolocated images.

Company: Antef

Role: Development of web and mobile platforms along with backend, Optimize database queries, and Deployment of the application on the server.

Technology/Languages: GIS, Python, Django, FastApi, Celery, Redis, ReactJs, Postgresql, Kotlin, AWS

Bus Scheduling Tool

About: A GIS based tool to help the Bengaluru Metropolitan Transport Corporation to plan and optimize the bus routes and convert diesel buses to electric buses so that pollution and cost can be reduced, and maximum efficiency can be achieved.

Company: WRI

Role: Led the development of the tool

Technology/Languages: GIS, Python, Django, Celery, Redis, ReactJs, Postgresql, AWS, Google Direction API

Covid Dashboard

About: An interactive UI for local government bodies in Maharashtra to visualize and monitor the covid cases. The tool periodically fetches the data from google sheets and store the data in the database and displays the statistical charts on the dashboard.

Company: WRI

Role: Developed the web dashboard

Technology/Languages: GIS, Python, Django, Celery, Redis, ReactJs

Presto Voice – HITL

About: A platform for the US restaurants to ease the integration of point of sale system. The platform is end to end solution to take orders in dine-in/drive through mode and process it using POS system chosen by the client and then sends it to the Kitchen Display System (KDS)

Company: Presto

Role: Integration of new POS system as per the client requiremen, Bug fixes and logic optimization.

Technology/Languages: Python, Django, FastApi, Web Sockets, AWS

Road Safety Audit

About: A mobile app to automate the road audit (Stage 4: Audit during Construction) as per IRC guidelines and generate the report in predefined templates.

Company: Antef

Role: Developed the backend and mobile App

Technology/Languages: GIS, Python, Django, Celery, Redis, Java

Paramilitary Force Deployment

About: A web interface for Punjab Election Commission along with Punjab Police to automate the deployment of paramilitary forces and provide the details to Company Commander using the textlocal message API.

Company: Antef

Role: Led the development of the interface

Technology/Languages:GIS, Python, Django, Celery, Redis, ReactJs, Postgresql

Google API Tool

About: A web tool to automate the data fetching using Google Places, and Distance Matrix API for the different non-IT departments in WRI. It takes SHP/CSV and KML as input and generates the output in CSV format.

Company: WRI

Role: Developing the web tool

Technology/Languages: GIS, Python, Django, Celery, Redis, ReactJs, Postgresql, AWS

Analysis Projects

Complimentary Analysis

About: To help the BMTC in the examination and optimization of bus serviceability. I was responsible for the processing of 400 GB of Mysql data using parallel processing in Python for the buses using ETM (ticketing data) and VTU (Location data).

Company: WRI

Role: Data Processing and Analysis

Technology/Languages: GIS, Python, MySQL

National Urban Policy

About: To help the government in framing the National Urban Policy based on statistical analysis.

Company: WRI

Role: Data Processing, Analysis and Automation

Technology/Languages: GIS, Python, GDAL

UXO India

About: Ranking of cities based on the road infrastructure, and traffic parameters and then, providing recommendations to improve the traffic conditions of the cities.

Company: WRI

Role: Data Processing and Analysis

Technology/Languages: GIS, Python