

Anshul Argelwar

Senior AI/python Developer (325) 455-0225 anshulargelwar90@gmail.com Dallas, TX [Linkedin](#)

Career Summary

Senior Python Developer with 12 years of experience in backend engineering, cloud-native development (AWS, Azure), and building scalable RESTful APIs and ETL pipelines across data-driven industries. Experienced in AI/ML workflows using Scikit-learn, Pandas, and Spark, with hands-on experience deploying machine learning models into production to drive business impact. Adept at collaborating with cross-functional teams and communicating effectively with stakeholders at all levels to align technical solutions with business objectives.

Technical Skills

Languages: Python, Java, PL/SQL | **Frameworks:** Django, Flask, FastAPI | **AI/ML:** LLM, Langchain, Copilot, Scikit-learn, Pandas, NumPy, SciPy, PySpark | **Data & Visualization:** Tableau, Matplotlib, Airflow, Snowflake, Camunda, MongoDB | **Cloud:** AWS (Lambda, S3, EC2), Azure (VMs, Blob), Cloud Foundry | **DevOps & Tools:** Git, Jenkins, Docker, Datadog, Splunk

Professional Experience

Lead Python Developer | Capital One | Plano, TX Jul 2024 – Present

Python (Boto3, Requests, Pandas, Numpy, OpenAI GPT, LLM), AWS Lambda, Jenkins, behave, Splunk, Camunda

- Developed a serverless backend system for real-time fraud detection and reporting.
- Built Python-based APIs deployed via AWS Lambda and managed via Jenkins pipelines
- Assisted in integrating an AI-powered LLM (Large Language Model) for advanced fraud pattern analysis, enhancing detection accuracy
- Implemented BDD tests with behave and achieved 95%+ test coverage with unittest
- Created real-time dashboards in Splunk and OneDash to visualize fraud patterns and anomalies.

Lead Python Developer | Azurity Pharmaceuticals | Woburn, MA

Sep 2022 – Jun 2024

Python (Flask, FastAPI, Airflow, Numpy, Pandas, OpenAI GPT, LLM), Snowflake, PostgreSQL, Docker, Azure, Vue.js

- Led the development of ACE, a cloud-hosted web portal for commercial and analytics teams.
- Created Flask-based APIs and Vue.js frontend hosted in Docker on Azure VMs
- Automated data pipelines using Apache Airflow to refresh Snowflake data bi-weekly
- Integrated LLM capabilities to provide contextual insights for commercial data analysis
- Wrote Python scripts to extract, transform, and load (ETL) analytics data into PostgreSQL.

Senior Python Developer | Disney Streaming | Manhattan, NY

May 2021 – Aug 2022

Apache Airflow, Python, Snowflake, Spark, Scikit-learn

Engineered ETL pipelines to power personalization models for Disney+. • Designed and scheduled Airflow DAGs to orchestrate large-scale streaming data flows • Created custom sensors to validate data integrity and freshness before ML ingestion • Loaded and transformed behavioral data into Snowflake to support user segmentation and recommendation models. Collaborated with data scientists to optimize model performance and integrate ML predictions into real-time API services.

Lead Python Developer | Thermoking / Trane Technologies | Minneapolis, MN

Jan 2020 – Apr 2021

Django, Python (FastAPI, Django, Flask, Pandas, Numpy), Tableau, AWS EC2, S3, Redshift, Celery, Docker, Datadog

Built a cloud-based predictive maintenance platform for HVAC monitoring and analytics. • Developed Django web applications and integrated Tableau dashboards for real-time insights • Deployed containerized services using Docker on AWS EC2 and managed static assets via S3 • Automated background tasks using Celery and stored operational data in Amazon Redshift • Monitored application performance and availability using CloudWatch and Datadog.

Senior Python Developer | JPMorgan Chase | Columbus, OH

Jul 2019 – Dec 2019

Python, Django, Oracle, REST APIs, Swagger, Multiprocessing

Developed RESTful microservices for storage infrastructure monitoring and data collection. • Built APIs using Django and Django REST Framework to expose infrastructure metrics in JSON format • Optimized performance of data collection agents using Python's multiprocessing library • Stored processed metrics in Oracle and documented API endpoints using Swagger.

Python Developer | ExxonMobil | Houston, TX

Jan 2019 – Jul 2019

Python, Flask, HBase, Thrift, OpenShift, EFK Stack, Sphinx, Anaconda

Developed a Flask-based API platform to access and analyze large-scale HBase data in real time. • Built RESTful APIs using Flask and Thrift for efficient access to HBase-stored analytics data • Implemented HBase pagination and row-key filtering to optimize query performance • Configured an EFK stack on OpenShift to collect, parse, and visualize application logs in Kibana • Wrote unit and integration tests, documented code with Sphinx, and maintained packages with Anaconda.

Python Developer | Retrans | Memphis, TN

Jul 2018 – Dec 2018

Python, Django, HTML, JavaScript, JSON, XML, PDFKit, MySQL

Enhanced and extended a Transportation Management System (TMS) application with automated reporting and dashboard features. • Developed Django-based dashboards and front-end templates for real-time visibility into logistics data • Parsed and transformed JSON/XML data using Python scripts to support system integration • Automated PDF report generation using PDFKit to streamline documentation workflows.

Python Developer | Microsoft | Redmond, WA

Jan 2018 – June 2018

Python, Scikit-learn, Pandas, NumPy, PySpark, Docker, Django, Azure ML

Contributed to Azure Machine Learning's Forecasting Package, enabling end-to-end predictive pipelines integrated into Azure ML

Workbench. • Built forecasting workflows using Scikit-learn, NumPy, and Pandas for time-series modeling • Enabled parallel processing with Joblib and optimized performance using PySpark • Visualized forecasting outputs in Jupyter notebooks and deployed via Django and Docker for seamless consumption.

Python Developer | BNSF Railways | Fortworth, TX

May 2015 – Dec 2017

Python, Flask, Django, Spark, PyQt, MySQL, Docker

Built a scalable enterprise search system integrated with large-scale data pipelines. • Developed RESTful APIs using Flask and Django for distributed access • Powered backend data processing with Spark and MySQL for speed and scalability • Delivered a desktop GUI using PyQt and containerized the entire solution with Docker.

Education

Master of Science in Information Systems – Wilmington University, DE

2015

B.tech in Mechanical Engineering – KITS, INDIA

2012