

ASHISH KUMAR

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SUMMARY

Experienced Python-backed developer with 3+ years of expertise in Django, FastAPI, Flask, and Django Rest. Skilled in Docker, Kubernetes, and CI/CD pipelines. Proficient in database management with PostgreSQL, DynamoDB, MongoDB, and SQLite. Adept in AWS services including EC2, S3, Lambda, ECS, and more. Committed to delivering efficient, scalable, and maintainable backend solutions focusing on clean code, performance, and collaboration. Strong programming skills and ORM experience. Collaborates with the team to define, design, and ship new features.

WORK EXPERIENCE

Software Developer | Aloha Technology Pvt Ltd

Feb 2022 - Present

Project 1 : Copper Connector (Python, Fast API, SQLAlchemy, PostgreSQL, Docker, MQTT)

- Developed a **REST API** using **FastAPI**, **SQLAlchemy**, **SQLModel**, **PostgreSQL**, and **Uvicorn ASGI Server**.
- Implemented robust authentication with **JWT** and **REST APIs** for secure access.
- Created an **MQTT** service for task queuing and sequential execution.
- Containerized the application using **Docker** and **Docker Compose**.
- Implemented cronjob-related tasks for scheduled operations.
- Utilized **Alembic** for efficient model migration.
- Created APIs for device management (rebooting, restarting, retrieving information, and purging data) using the **Balena API**, and implemented ping and Nmap services with a custom networking library.

Project 2 : Weave (Python, Flask, SQLAlchemy, PostgreSQL, Docker, ECS)

- Developed the REST API using **Flask**, **Flask-Smorest**, and **SQLAlchemy**, with a PostgreSQL database.
- Deployed the application on AWS **ECS** and set up the **AWS pipeline** using **CodeBuild** and **CodeDeploy**.
- Developed authentication services, including login, account creation, and user **roles** and **permissions**.
- Implemented database migration using **Flask-Migrate** and email-sending features with the **SMTP**.

Project 3 : Metadoc AI (Python, Django REST, Django Graphene, PostgreSQL, ECS, AWS Lambda)

- Created REST APIs using **Django REST Framework** and PostgreSQL, optimizing response times with **GraphQL** via **Django Graphene**.
- Set up file uploads to **S3**, used **AWS Lambda** to process file contents and store data in **DynamoDB**, and created an AWS API Gateway for CRUD operations on DynamoDB.
- Established a CI/CD pipeline with **AWS CodeCommit**, **CodeBuild**, and **CodeDeploy** deploying the application to ECS.
- Implemented social authentication with **google-auth** library and secured API Gateway using **AWS Lambda Authorizer**.

EDUCATION

Abdul Kalam Technical University

Master of computer application (80.3 %)

2022

Mahatma Gandhi Kashi Vidyapeeth University

Bachelor of Computer Application (68.4 %)

2020

SKILLS

Python

Django

Flask

Fast-API

Django-Rest

Git

SQL

PostgreSQL

AWS

AWS Lambda

Kubernetes

MongoDB

Dynamo DB

Pandas

Numpy

Matplotlib

Jira

SDLC

AWS-Cognito

CERTIFICATIONS

- Python certified with Microsoft Technology Associate
- Python Django for AWS Deployment with Udemy
- AWS Lambda, Python (Boto3) & Serverless Beginner to Advanced with Udemy
- Kubernetes From Scratch for Beginners, Udemy

LANGUAGES

- English
- Hindi