

APURV CHAUDHARY

Senior Backend Engineer / Software Engineer — Backend Development — Python — Django — FastAPI — AWS — Kubernetes

+91-8553743806 | apurv.sirohi@gmail.com | LinkedIn | GitHub | Portfolio

PROFESSIONAL SUMMARY

Senior Backend Engineer with six years of experience delivering and maintaining backend platforms using Python, Django, FastAPI, AWS, and Kubernetes. Expertise includes system design, RESTful web services, authentication and authorization mechanisms, distributed computing, serverless and microservice based architectures, and database optimization. Active open source contributor with runner up recognition in a MariaDB Django initiative. Hands on experience across API delivery, CI and CD workflows, infrastructure automation, monitoring, scalability planning, service reliability, security controls, and production issue resolution.

EXPERIENCE

- **Senior Python Developer** Feb 2025 to Present
Intellias Pune, IN
 - Managed AWS serverless application stacks using Lambda, API Gateway, IAM, and CloudWatch, supporting high volume mobile traffic at scale.
 - Implemented backend endpoints for RESTful web services with JWT based authentication, OAuth2 authorization flows, access policies, request throttling, validation layers, and caching strategies, reducing unauthorized usage by more than 40 percent.
 - Enhanced service stability and throughput by optimizing cold start behavior, request idempotency, timeout thresholds, and retry coordination between dependent components.
 - Created reusable Python modules for pricing and currency calculations, enabling consistent locale specific rounding and serialization across multiple services.
- **SDE 2** May 2021 to Dec 2023
Innovaccer Noida, IN
 - Resolved performance constraints in reporting workflows, decreasing Power BI export duration from roughly 10 minutes to under 10 seconds.
 - Authored and released a cloud agnostic Python storage library on PyPI, standardizing file operations and credential management across teams.
 - Augmented Django data access with SQLAlchemy to address query complexity, improving execution efficiency and compatibility with PostgreSQL and Snowflake.
 - Drove adoption of function based compute patterns, guiding five engineers and shortening deployment cycles by approximately 30 percent.
- **Software Engineer** Sep 2018 to Oct 2020
Kuliza Technologies Bengaluru, IN
 - Delivered backend components for authentication workflows, access policies, dashboards, and third party integrations supporting enterprise customers.
 - Architected asynchronous processing pipelines using AWS SQS, Redis, and PostgreSQL, improving processing resilience and minimizing manual recovery effort.
 - Enabled live data updates via Django Channels and WebSockets, contributing to an estimated 30 percent increase in interface responsiveness.

EDUCATION

2016-18, 66%, Master of Computer Applications, Chandigarh University

2013-16, 68%, Bachelor of Science (CS), Bangalore University

ACHIEVEMENTS AND OPEN SOURCE

Runner Up, BangPypers x MariaDB Python Hackathon

Acknowledged by the MariaDB Foundation for developing a Python and Django based solution introducing vector search and semantic similarity querying capabilities within MariaDB.

mariax (Open Source)

Built and maintained an open source Django extension providing first class support for MariaDB vector data types. Extended Django ORM internals and QuerySet APIs to enable vector persistence, indexing, cosine similarity operations, and semantic search queries. Delivered abstractions for schema definition, migrations, and query execution compatible with existing Django models.

Project link: github.com/apurvchaudhary/mariax

TECHNICAL SKILLS

Languages: Python, Go, SQL, JavaScript

Backend and Apis: Django, Fast-API, Flask, REST APIs, Restful Web Services, API Versioning, SQLAlchemy

Python Internals: AsyncIO, Multithreading, Multiprocessing, GIL, Memory Management, Serialization

Databases: PostgreSQL, Snowflake, Redis, MongoDB, Indexing, Query Optimization

Cloud Platforms: AWS Lambda, API Gateway, IAM, CloudWatch, VPC, Security Groups, WAF

Container Orchestration: Kubernetes Pods, Deployments, Services, Ingress, Helm, ConfigMaps, Auto Scaling, Auto-scaling

DevOps Tooling: Docker, CI Pipelines, CI/CD, GitOps, Argo CD, Terraform

Architecture Patterns: Microservices, Serverless Systems, Distributed Systems, Event Driven Design

Security and Observability: JWT, OAuth2, Access Control, OWASP, Encryption, Logging, Monitoring

PROJECTS

DomainFlux: DNS resolution service built in Python using UDP sockets, multithreading, concurrent request handling, packet parsing, and real time logging for local development environments.

Passmango: Offline first password management application leveraging cryptography libraries, operating system keyrings, and encryption at rest for secure credential storage.