Gautam Kumar

Senior Python Developer

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PROFESSIONAL SUMMARY

Senior Python Developer with nearly 10 years of experience designing, building, and scaling backend and cloud-native applications using Python, Django, FastAPI, and AWS. Expertise in serverless architecture, microservices, CI/CD automation, and cloud migrations.

CORE TECHNICAL SKILLS

Backend:	Python, Django, Django REST Framework, FastAPI, Flask
Databases:	MySQL, PostgreSQL, MongoDB, DynamoDB
Cloud & DevOps:	AWS (EC2, S3, RDS, Lambda, ECS, SQS, Step Functions, EventBridge, CloudWatch, Parameter Store, Amazon Connect), Docker, GitHub Actions, CI/CD
Web:	HTML, CSS, Bootstrap, JavaScript, jQuery, AJAX, JSON
Tools:	Git, GitHub, Bitbucket, SVN, JIRA, Confluence

LANGUAGES

English – Professional (Client communication, documentation, code reviews)

Hindi – Native

PROFESSIONAL EXPERIENCE

Module Lead – Mphasis Limited, Pune

Feb 2026 - Sep 2026

- Develop and maintain enterprise backend applications using Python, FastAPI, Django, AWS, PostgreSQL, Elasticsearch, Docker, and Kubernetes.
- Build resilient microservices and REST APIs using Python and AWS, with a strong focus on scalability, reliability, and maintainability.
- Participate in system design, performance optimization, code reviews, CI/CD implementation, and mentoring to deliver robust production solutions.

Senior Engineer – Apexon India Pvt. Ltd., Pune

Aug 2025 – Jan 2026

- Working on enterprise backend systems using Python and AWS, contributing to scalable and cloud-native solutions.
- Mentor junior engineers to ensure timely delivery and high-quality code standards.

Senior Associate – Cognizant Technology Solutions, Pune

Jan 2024 – Jul 2025

- Migrated a US insurance application to AWS Serverless (Lambda, SQS, Step Functions), reducing processing time by ~30%.
- Built and maintained CI/CD pipelines using GitHub Actions, reducing deployment time from hours to minutes.
- Developed a social media sentiment reporting platform using FastAPI and Pandas for healthcare insights.
- Mentored junior engineers, improving deployment stability and code quality.

Technical Lead – HCL Technologies Ltd., Bengaluru

Sep 2021 – Dec 2023

- Designed backend modules using Python, FastAPI, Flask, and Elasticsearch.
- Containerized services with Docker and deployed on AWS ECS, improving release velocity by ~20%.
- Built robust web scraping engines using BeautifulSoup and Python.

Software Engineer – Nickelfox Technologies, Noida

Aug 2021 – Sep 2021

- Worked on writing unit tests for the developed software modules achieving code coverage ~90%.
- Developed REST APIs using Django REST Framework and FastAPI.

Senior Software Engineer – Chetu India Pvt. Ltd., Noida

Nov 2019 – Aug 2021

- Built a multi-tenant SaaS Pharmacy System using Django and PostgreSQL with isolated databases per client.
- Developed REST APIs using Django REST Framework and integrated Worldpay and Twilio APIs.

Python Developer – AP Web World, Noida

Sep 2016 – Oct 2019

- Designed, developed and deployed full-stack applications using Python, Django, MySQL, JavaScript, HTML, and CSS.

TECHNICAL PROJECTS

CCaaS Application Feature Integration - Mphasis

Feb 2026 – Present

- Developed and enhanced AWS Lambda functions, Amazon Connect Contact Flows, and Contact Flow Modules to deliver scalable, highly available CCaaS features for enterprise customers.
- Designed and implemented backend enhancements using Python and AWS services, ensuring reliable, cloud-native application functionality and seamless feature integration.
- Authored comprehensive unit test cases for Lambda functions, achieving and maintaining 85%+ code coverage to support robust CI/CD pipelines and improve deployment quality.
- Collaborated with cross-functional teams including product owners, QA engineers, and solution architects to deliver business-critical features within project timelines.
- Contributed to production issue analysis, debugging, and performance optimization by leveraging CloudWatch logs, monitoring tools, and engineering best practices.
- **Technologies:** Python, AWS Lambda, Amazon Connect, Contact Flows, Contact Flow Modules, DynamoDB, PostgreSQL, Amazon S3, Amazon EC2, Amazon SQS, Amazon CloudWatch, GitHub, Bitbucket, GitHub Copilot, Jira, Confluence.

Application Performance Optimization – Apexon

Aug 2025 – Jan 2026

- Reduced end-to-end pipeline execution time by ~87% (from ~60 minutes to 7–8 minutes) by redesigning the data processing workflow with Python multithreading, enabling parallel API execution.
- Implemented an exponential backoff–based retry mechanism to automatically recover from transient API failures, significantly improving the reliability and resilience of the processing pipeline.
- Developed structured logging across critical processing stages, enhancing application observability and accelerating root cause analysis and production debugging.
- **Technologies:** Python, MongoDB, PostgreSQL, AWS Lambda, S3, SQS, CloudWatch, GitHub, GitHub Copilot, Jira, Confluence

Application Migration to AWS – Cognizant

Aug 2024 – Jul 2025

- Migrated a US insurance application from Automation Anywhere to AWS Lambda-based serverless architecture.
- Implemented optimized Python workflows and built CI/CD pipelines using GitHub Actions.
- **Technologies:** Python, MongoDB, PostgreSQL, AWS Lambda, S3, EC2, SQS, Step Functions, EventBridge, CloudWatch, GitHub, GitHub Copilot, Jira, Confluence

Report Generation for Business Analysis – Cognizant

Jan 2024 – Jul 2024

- Built a social media sentiment reporting platform extracting insights from Reddit, X, and YouTube.
- Automated data retrieval, preprocessing, and report generation using Pandas.
- Developed scalable FastAPI-based microservices and deployed on AWS ECS using Docker.
- **Technologies:** Python, FastAPI, Pandas, AWS ECS, EC2, S3, Docker, Jira, Confluence

Web Crawler for Data Modeling – HCL

Jun 2022 – Dec 2023

- Designed and implemented a high-performance web scraping engine using BeautifulSoup and Python.
- Built a cognitive search platform using Elasticsearch for structured data analysis.
- **Technologies:** Python, FastAPI, Elasticsearch, BeautifulSoup, Docker, GitLab, Jira

Multi-Tenant Pharmacy System – Chetu

Sep 2020 – Jul 2021

- Built a SaaS platform for pharmacy operations, patient management, and prescription monitoring.
- Designed secure multi-tenant architecture with isolated databases per client.
- Integrated Worldpay Payment Gateway and Twilio SMS APIs.
- **Technologies:** Python, Django, PostgreSQL, Twilio SDK, AWS, Docker, Git

SaaS Applications – Healthcare & Legal Domains – Chetu

Dec 2019 – Aug 2020

- Developed workforce health assessment and legal firm lead-generation applications.
- Implemented business logic, database design, and AWS deployments with auto scaling.
- Integrated Twilio APIs for SMS, calls, and call recording.
- **Technologies:** Python, Django, Django REST Framework, MySQL, PostgreSQL, AWS, JavaScript, Git, SVN, Jira

PERSONAL PROJECT

Portfolio & Technical Blog Platform – Personal Project

Ongoing

- Designed and developed a production-style personal portfolio and technical blogging platform using Python and Django, with PostgreSQL as the primary database.

- Implemented backend functionality including content management, user interactions, customer review workflows, authentication/authorization, and database-driven features.
- Deployed and maintained the application on AWS, applying production deployment, configuration, security, and operational practices.
- Implemented automated testing using Pytest and test-environment management with Tox to improve code quality and deployment confidence.
- Automated application deployment using GitHub Actions and AWS Systems Manager (SSM), enabling repeatable deployments without manual server intervention.
- **Technologies:** Python, Django, PostgreSQL, AWS EC2, AWS SSM, GitHub Actions, Pytest, Tox, HTML, CSS, JavaScript, Git, GitHub

EDUCATION

B.Tech in Computer Science & Engineering
Punjab Technical University, Jalandhar (2009 – 2013)