Sagar Arora

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ABOUT

Backend Engineer with 4.3+ years of experience building production Python systems across US healthcare and entertainment domains. Proficient in FastAPI, MySQL, Redis, AWS and GCP. Hands-on with LLM integration, RAG pipelines, and Kubernetes deployments.

TECHNICAL SKILLS

Languages & Frameworks: Python, SQL, FastAPI, Pydantic, REST API Design

Databases & ORM: MySQL, PostgreSQL, Redis, SQLModel, SQLAlchemy, Database Design, Query Optimization, Indexing

Cloud & Infra: AWS, GCP, Docker, Kubernetes (GKE), Terraform, AWS EC2, S3, Lambda, IAM, CloudWatch

Testing & CI/CD: CI/CD Pipelines, Grafana, SonarQube

AI / LLM: LLM Integration, Prompt Engineering, Function Calling, Tool Use, LLM Evaluation, Guardrails

LLM Frameworks & Platforms: LangChain, LangGraph

RAG & Vector Search: Vector Databases, Semantic Search, Hybrid Search, BM25, Reranking, Query Rewriting,Chunking Strategies, Document Ingestion, Knowledge Bases.

AI Coding & Dev Tools: Claude, GitHub Copilot, Google Gemini

Tools: Git, GitHub, PyCharm, VS Code, Postman, DBeaver, AWS CLI, gcloud CLI, Linux CLI

OS: Linux, Mac, Windows

EXPERIENCE

Straive (Gramener) May 2026 – Present

Senior Data Science Engineer *Delhi, IN*

- Working with the WBD (Warner Bros. Discovery) team on DEX, a document AI utility platform, contributing since project inception.
- Built a sensitive-entity masking module to detect and redact PII/confidential data within documents, strengthening data privacy and compliance.
- Designed and shipped an in-platform quick guide and guided tours feature to improve onboarding and platform adoption for end users.

Elastiq Technologies Nov 2025 – May 2026

Software Engineer *Delhi, IN*

- Optimized Python-based entity extraction pipeline, reducing processing time by 30% and LLM costs by 50% via batching.
- Built end-to-end sentiment analysis system; developed 5+ Python scrapers for region-wise social media insights
- Contributed to a RAG-based data parsing system by implementing contextual chunking, improving token efficiency and LLM response quality.
- Worked on a multi-layer prompt architecture for routing, security, and response synthesis in LLM workflows.
- Led onboarding of 3 enterprise clients with end-to-end deployment on AWS and GCP.

Collance Technologies Pvt. Ltd. Jan 2023 – Nov 2025

Software Developer *Delhi, IN*

- First engineering hire; built 5+ Python-based backend systems in the US healthcare domain.
- Developed LabPortal, a lab ordering platform with communication workflows and Five9 integration.
- Built Care Coordination module for SDOH data collection, caregiver workflows, and task management.
- Contributed to the development of Outreach-IQ, a scalable call center platform integrating Telnyx.
- Implemented high-throughput power dialer.
- Designed event-driven backend architecture for concurrent workflow execution at scale.

Amazon Web Services (AWS) **Jun 2022 – Sep 2022**
Cloud Support Associate – Big Data *Remote*

- Developed Python scripts to parse logs and debug failures in EMR-based data processing jobs.
- Automated troubleshooting workflows, reducing manual effort in issue diagnosis.
- Built Python utilities for monitoring cluster performance and identifying bottlenecks.

PROJECTS

Uttaram.AI | *Python, FastAPI, PostgreSQL, Redis, BigQuery, Docker, Kubernetes, Playwright, LLM, Digital Ocean — 2025*

- Entertainment domain platform automating revenue calculation and improving distribution efficiency for movie distribution workflows.
- Built LLM-powered automation pipelines and social media scrapers with Playwright for region-level movie buzz detection, contributing to a 30% revenue increase.

EDUCATION

Amity University (Online)
Master of Computer Applications — Noida, IN

Shyam Lal College (IGNOU)
Bachelor of Computer Applications — Delhi, IN

CERTIFICATIONS

- SQL Certification – HackerRank
- Python Bootcamp – Udemy
- AWS Cloud Practitioner
- R&R Award – Collance Technologies (2024)
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