

# ASHUTOSH KUMAR

Kolkata, India

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## Summary

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Software Engineer with **3+ years** of experience designing and building **scalable backend systems, data pipelines, and automation platforms**. Skilled in developing high-performance **REST APIs**, architecting reliable **data processing workflows**, and optimizing systems for large-scale analytical workloads.

## Technical Skills

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**Languages:** Python, JavaScript, Go

**Frameworks:** Django, Django REST Framework, FastAPI

**Databases:** PostgreSQL, MySQL, SQLite, MongoDB

**Google Cloud Platform:** Kubernetes Engine, BigQuery, Cloud Run, Cloud Storage, Artifact Registry, Log Explorer

**DevOps:** Docker, Kubernetes, Github CI/CD, Bitbucket Pipelines, Azure DevOps

**Misc:** Argo Workflow, Sentry, Redis, RabbitMQ

**Soft Skills:** Leadership, Communication, Teamwork, Initiative, Ownership

## Experience

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### Soliva Technologies

July 2023 – Present

*Lead Backend Developer*

*Kolkata, West Bengal*

- Led a team of **4 engineers** to build scalable backend systems and **data processing infrastructure** powering analytics, automation, and reporting workflows in Agile sprints to deliver scalable, backend and data solutions.
- Architected and maintained **25+ robust ETL (Extract, Transform, Load) data pipelines** to facilitate advanced analytics, generate comprehensive reporting, and produce key performance indicators (KPIs).
- Engineered a scalable **data ingestion and transformation framework** using **Argo Workflows** and **BigQuery**, aggregating multi-brand datasets into **50+ raw tables**, transforming them into standardized analytics tables.
- Developed an internal **fail-safe** automation API, **reducing 98% of manual deployment time** for client websites using remote SSH, 3rd-party API integrations, validation layers, and workflow orchestration.
- Designed, optimized, and **maintained 50+ REST APIs** and **70+ ORM data models** to support evolving high-throughput backend systems, enabling data ingestion, pipeline triggering, analytics, and automation systems.
- Migrated and **refactored core product architecture** from a tightly coupled monolith to a modular **SaaS-ready** multi-tenant backend system, enabling on-boarding of **7+ clients** with isolated data and config layers.
- Implemented a **custom queueing** and monitoring system for **K8s cron jobs** with retry and cancellation logic, email/Slack-based alerting mechanisms, and centralized cloud logging, boosting **reliability by 90%**.
- Reduced **database query latency and load by 50%** through indexing strategies, caching layers, and efficient query optimization methods to efficiently process large-scale analytical datasets and high-frequency reporting queries.
- Engineered an **LLM-powered scoring system** using OpenAI API to evaluate semantic alignment between **100K+ user intent signals** (keywords, ads) and destination content (landing pages, URLs).
- Introduced automated code quality workflows (pre-commit hooks, static linters) into CI/CD pipelines, **improving developer velocity by 25%** and ensuring consistent, maintainable codebase standards.
- Engineered an internal **Slack Bot** integrated with backend APIs to trigger automation workflows and operational tasks directly from Slack using slash commands, **improving internal operational efficiency by 60%**.

### Celebal Technologies

February 2022 – June 2023

*Associate*

*Jaipur, Rajasthan*

- Built **15+ CI/CD pipelines** using Azure DevOps, deploying via VMs, Azure Container Registry (ACR), and artifact feeds across sandboxed environments with custom subnetting and routing rules.
- Explored Docker, Kubernetes, and Terraform through **3+ internal project** shadowing, gaining hands-on experience with **infrastructure-as-code**, container orchestration, and cloud-native deployments.

## Relevant Coursework

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- Data Structures
- Algorithms
- Database Management Systems
- Computer Networks
- Object-Oriented Programming
- Operating Systems

## Education

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### Asansol Engineering College

July 2018 – June 2022

*Bachelor of Technology in Information Technology*

*Asansol, West Bengal*