

# Omprakash Sahu

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## Professional Summary

Senior Software Engineer with over 6 years of experience in building scalable backend systems and distributed architectures, mainly using Python and frameworks like Django, FastAPI, and Flask. I've designed and developed async APIs, handled real-time data pipelines with Kafka and Docker, and worked across domains like manufacturing tech, CDN platforms, and health insurance. I also have hands-on experience with AWS, GCP, and Azure. My focus is on building reliable, maintainable systems and improving performance through automation and clean architecture.

## Skills

**Languages:** Python, JavaScript, Golang, SQL (MySQL, PostgreSQL), NoSQL (MongoDB)

**Technologies & Tools:** Django, FastAPI, Flask, PySpark, Kafka, Zookeeper, Elasticsearch, LangChain, GenAI, AWS (EC2, S3, Lambda, DynamoDB), GCP, Azure, Kubernetes, Docker, Helm, CI/CD, Git, Linux

## Work Experience

### Reliance Retail Pvt. Ltd., Bangalore

May 2024 - Present

#### Senior Software Developer

- Designed and delivered key sourcing modules (Order Allocation, Supplier Recommendation, Order Confirmation, and Trim Sourcing), reducing manual procurement efforts by 40% through smart automation.
- Integrated Kafka and REST APIs to enable real-time vendor sync, improving order processing latency by 35%.
- Developed GenAI-driven assistant using LangChain to automate fabric sourcing queries and vendor insights.
- Led system architecture planning and documentation (HLD/LLD), conducted code reviews, and mentored junior engineers — boosting team efficiency and code quality.
- Tech Stack: Python, FastAPI, Django, LangChain, GenAI, GCP, Pub/Sub, EC2, S3, MongoDB, Kafka, Zookeeper, MySQL, Kubernetes, Docker

### Zee Entertainment Enterprises Ltd., Bangalore

Aug 2022 - Mar 2024

#### Senior Software Development Engineer

- Developed and maintained core CDN services with global content delivery support.
- Reduced cross-service latency by 30% by fixing bottlenecks and improving API payload efficiency.
- Built data transformation jobs using PySpark to prepare logs and metrics for internal analytics.
- Contributed to architectural decisions and authored comprehensive API documentation.
- Tech Stack: Python, Django, Flask, Golang, PySpark, AWS Step Functions, AWS Batch, Lambda, S3, DynamoDB, EC2, SQL, MongoDB, Azure, Elasticsearch, Pandas

### MK Corporate Solutions, Bangalore

Dec 2018 - Aug 2022

#### Software Engineer

- Engineered scalable backend APIs and services for health insurance platforms in the US, enhancing operational throughput by 25%.
- Developed modules to handle policy lifecycle events including submission, change requests, and cancellations.
- Collaborated with cross-functional teams to integrate Java-based services and third-party APIs with Python/Django.
- Designed and implemented CI/CD pipelines to automate testing, validation, and deployment workflows.
- Tech Stack: Python, Flask, Django, PostgreSQL, MongoDB, Kafka, Pandas, Numpy

## Education

### GITAM Bhubaneswar

Aug 2014 - Jun 2018

BTech in Mechanical Engineering

CGPA: 7.6/10

Relevant Coursework: Object Oriented Programming, Databases, Data Structures and Algorithms, Operating Systems, Computer Networks, Advance Data Structures and Algorithms

## Projects

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- **Manufacturing Management System (2024–25)**

**Description:** An automated sourcing solution for fabric and trims in apparel manufacturing.

**Tech Stack:** GCP, Pub/Sub, Kafka, FastAPI, Django, MongoDB, Kubernetes, Terraform, LangChain, GenAI

Built a fabric and trim sourcing automation platform, streamlining procurement and reducing manual order effort by 40%. Integrated GenAI-powered assistant for sourcing queries.

- **CDN Platform (2022–24)**

**Description:** A scalable content delivery platform for global media streaming.

**Tech Stack:** Python, Golang, NodeJS, PySpark, Elasticsearch

Engineered a CDN service from scratch ensuring high-speed global delivery and 99.99% uptime. Integrated PySpark pipelines for internal analytics.

- **Insurance Application for Health (2019–22)**

**Description:** A web-based platform for managing health insurance policy workflows.

**Tech Stack:** Django, REST API, Java, PostgreSQL, CI/CD, Git

Designed core policy lifecycle modules including submission, renewal, and cancellation for US-based health insurance clients. Integrated Django APIs with Java services and automated testing and deployments through CI/CD pipelines.